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PUBLIC SERVICE
COMMISSION

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May 1, 2019

HAND DELIVERY

Gwen R. Pinson
Executive Director
Public Service Commission
211 Sower Boulevard
P.O. Box 615
Frankfort, KY 40602-0615

Mark R. Overstreet
(502) 209-1219
(502) 779-8349 FAX
moverstreet@stites.com

RE: Kentucky Power Company's 2018 Public Service Commission Annual Report
and Related Filings

Dear Ms. Pinson:

Enclosed please find and accept for filing the original and ten copies of Kentucky Power Company's 2018 Annual Resource Assessment in accordance with the Commission's March 29, 2004 Order in Administrative Case No. 387. The 2018 Annual Resource Assessment was identified in my transmittal letter dated April 30, 2019, but was omitted inadvertently from the Company's filing of that date.

Please do not hesitate to contact me if you have any questions.

Very truly yours,



Mark R. Overstreet

MRO

Kentucky Power Company
KPSC Administration Case No. 387
Order Dated December 20, 2001
Annual Resource Assessment

DATA REQUEST

KPSC 1_1 Actual and weather-normalized monthly coincident peak demands for the just completed calendar year. Demands should be disaggregated into (a) native load demand (firm and non-firm) and (b) off-system demand (firm and non-firm). Please provide the information for both Kentucky Power Company individually and the AEP-East Power Pool (pursuant to the Commission's December 13, 2004 Order in the Rockport UPSA extension, Case No. 2004-00420).

RESPONSE

Please refer to Page 1 of KPCO_R_KPSC_1_1_Attachment1 for actual and weather normalized 2018 monthly peak native load demands for Kentucky Power Company.

Kentucky Power Company had two customers with interruptible provisions in their contracts in 2018 for PJM initiated events. The two customers had approximately 5.6 MW of total interruptible load available for use in PJM capacity auctions. The interruptible load available for PJM auctions reflects the average load for these customers, less contractually firm load, at the time of the PJM five coincident peaks in the summer of 2017.

Please refer to Page 2 of KPCO_R_KPSC_1_1_Attachment1 for actual 2018 monthly system demands for Kentucky. The system demands include internal load and off-system sales. Weather-normalized monthly peak system demands for Kentucky Power Company have not been developed and are not available.

The AEP Interconnection Agreement terminated on January 1, 2014, and the AEP-East Power Pool no longer exists. The requested information regarding the AEP-East Power Pool no longer exists.

Witness: Brian K. West

Kentucky Power Company
Actual and Weather Normalized Peak Internal Demand (MW)
2018

Kentucky Power Company				
Month	Peak	Peak Day	Peak Hour	Normalized Peak
January	1,446	1/2/2018	9	1,355
February	1,173	2/3/2018	9	1,220
March	1,007	3/14/2018	9	1,115
April	905	4/5/2018	7	795
May	898	5/15/2018	15	836
June	999	6/19/2018	15	983
July	985	7/4/2018	16	1,027
August	983	8/28/2018	16	1,002
September	990	9/4/2018	15	926
October	889	10/8/2018	14	762
November	1,056	11/28/2018	9	1,032
December	1,062	12/11/2018	8	1,196

**Kentucky Power Company
Actual Peak System Demand (MW)
2018**

Kentucky Power Company			
Month	Peak	Peak Day	Peak Hour
January	1,471	1/17/2018	12
February	1,306	2/5/2018	9
March	488	3/2/2018	14
April	675	4/29/2018	21
May	1,014	5/29/2018	13
June	1,386	6/30/2018	17
July	1,399	7/1/2018	17
August	1,368	8/14/2018	14
September	1,357	9/5/2018	11
October	1,235	10/8/2018	16
November	705	11/7/2018	21
December	846	12/13/2018	14

Kentucky Power Company
KPSC Administration Case No. 387
Order Dated December 20, 2001
Annual Resource Assessment

DATA REQUEST

KPSC 1_2 Load shape curves that show actual peak demands and weather-normalized peak demands (native load demand and total demand) on a monthly basis for the just competed calendar year. Please provide the information for both Kentucky Power Company individually and the AEP-East Power Pool (pursuant to the Commission's December 13, 2004 Order in the Rockport UPSA extension, Case No. 2004-00420).

RESPONSE

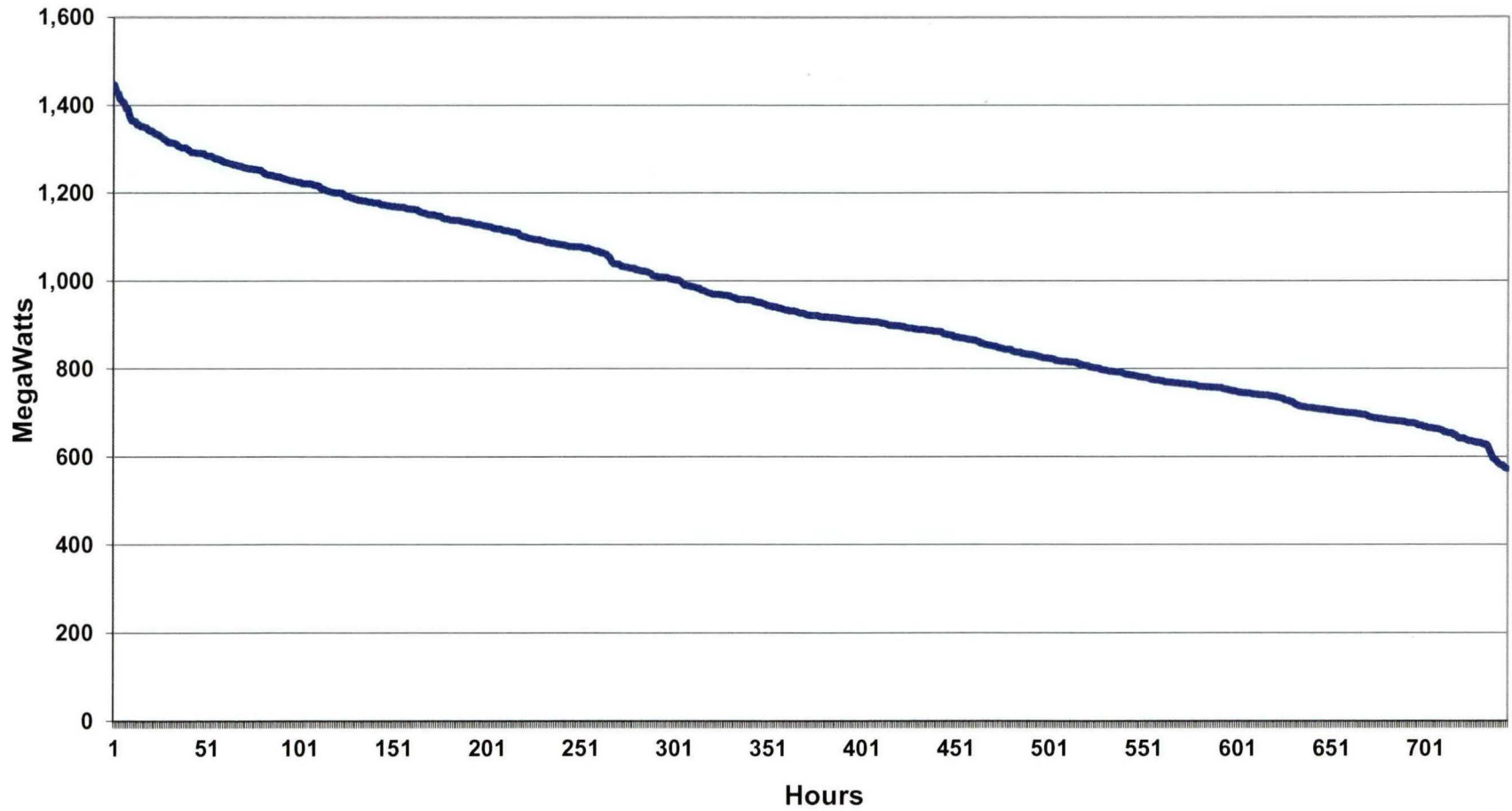
Please refer to Pages 1 through 12 of KPCO_R_KPSC_1_2_Attachment1 for 2018 monthly load duration curves for Kentucky Power Company's internal (native) load. Please refer to Pages 13 through 24 of KPCO_R_KPSC_1_2_Attachment1 for 2018 monthly load duration curves for Kentucky Power Company's system load. The system load, for Kentucky Power Company, includes internal load and off-system sales.

Weather-normalized monthly internal peaks for Kentucky Power Company are provided on Page 1 of KPCO_R_KPSC_1_Attachment1. Weather normalized system peaks have not been developed and are not available.

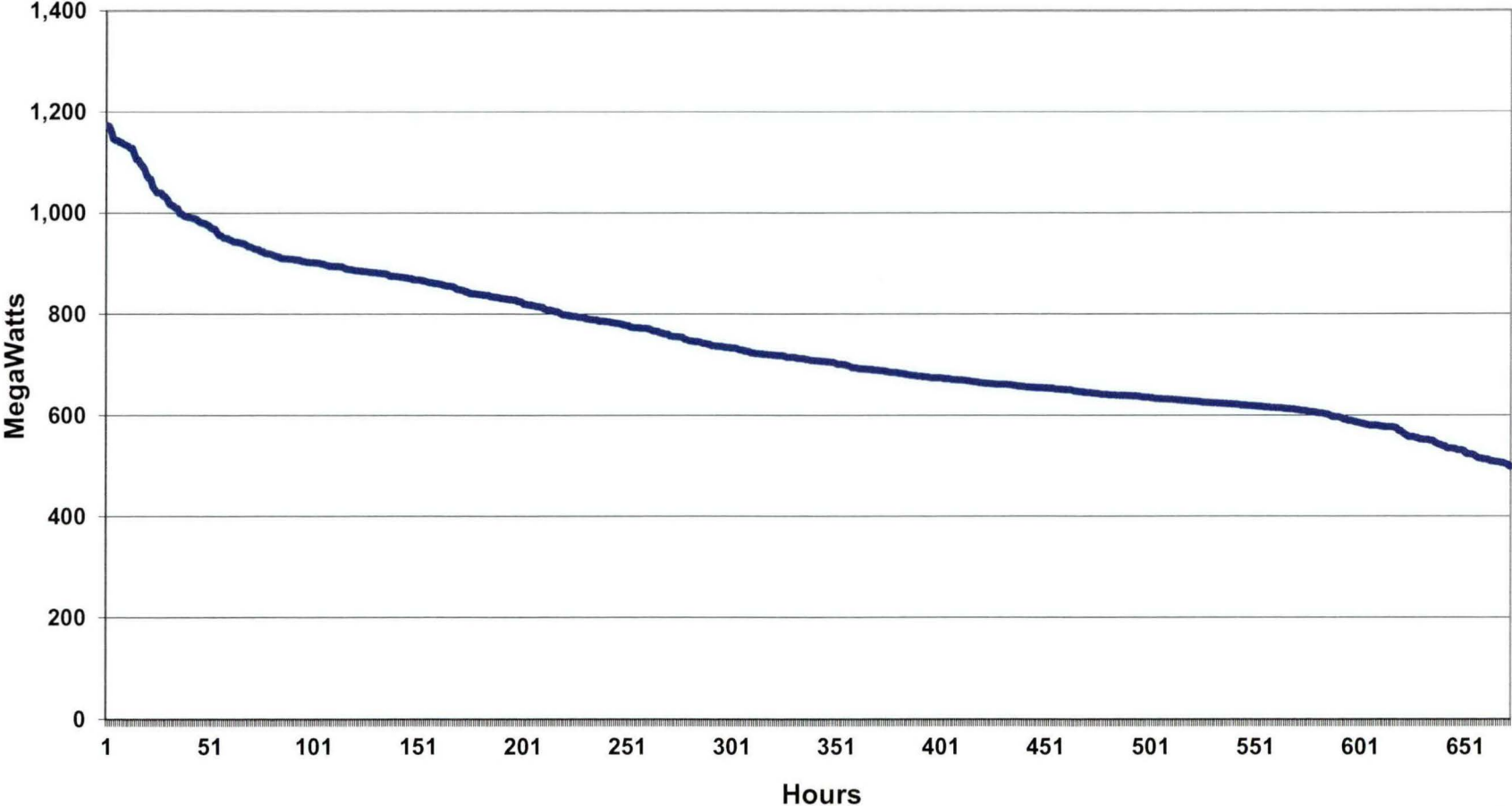
The AEP Interconnection Agreement terminated on January 1, 2014, and the AEP-East Power Pool no longer exists. The requested information regarding the AEP-East Power Pool no longer exists.

Witness: Brian K. West

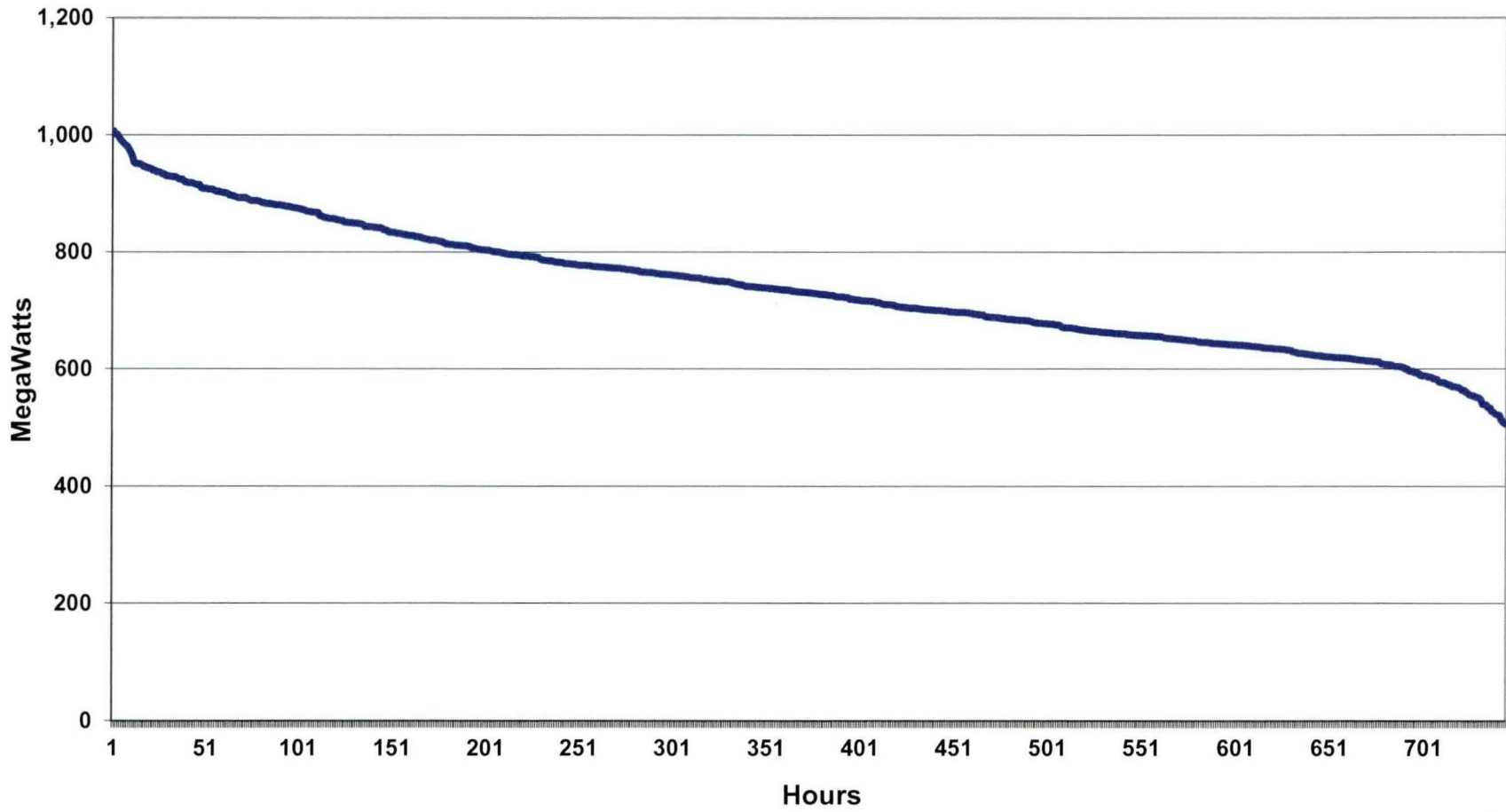
Kentucky Power Company January 2018 Load Duration Curve (Internal Load)



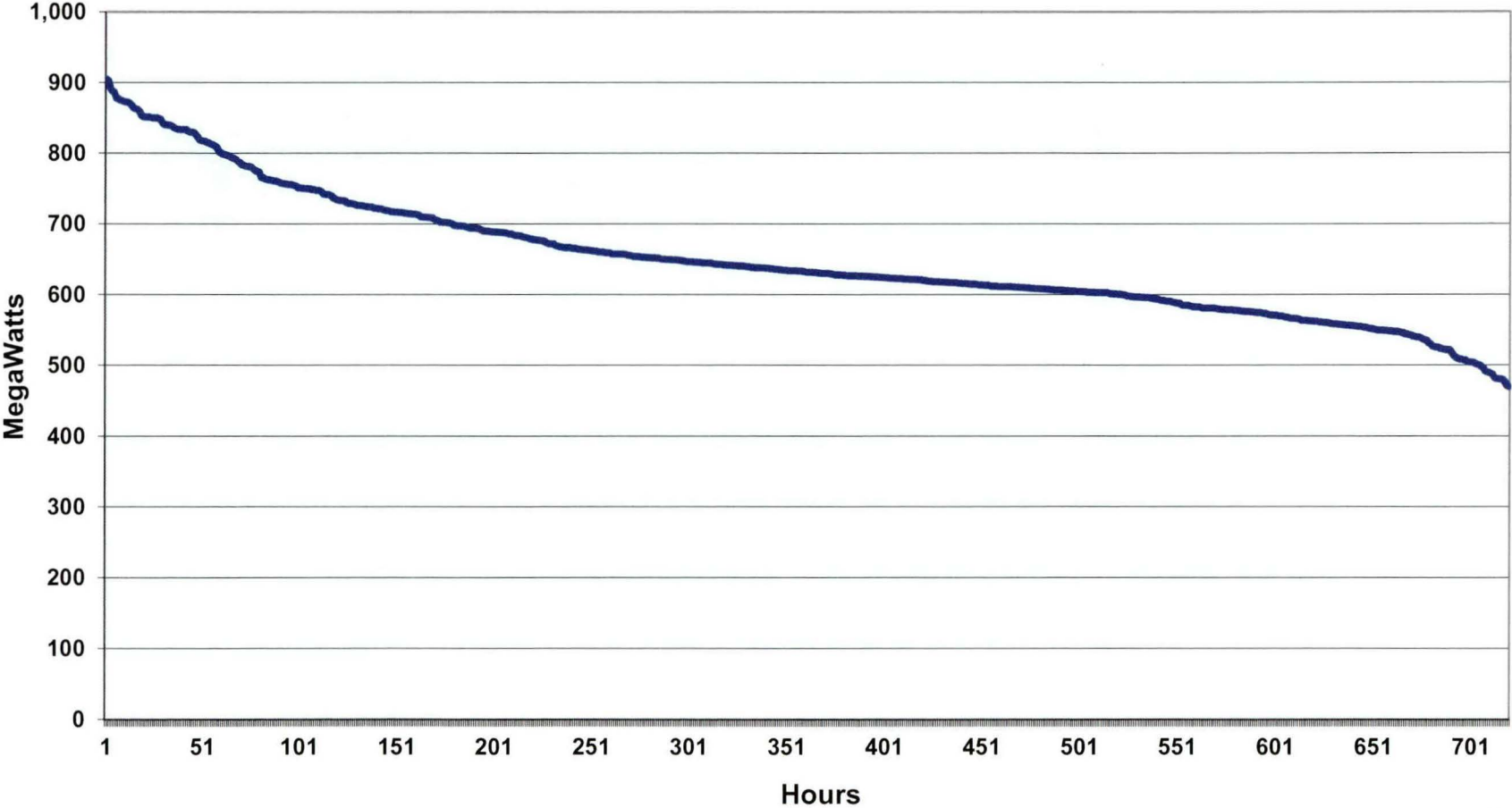
Kentucky Power Company February 2018 Load Duration Curve (Internal Load)



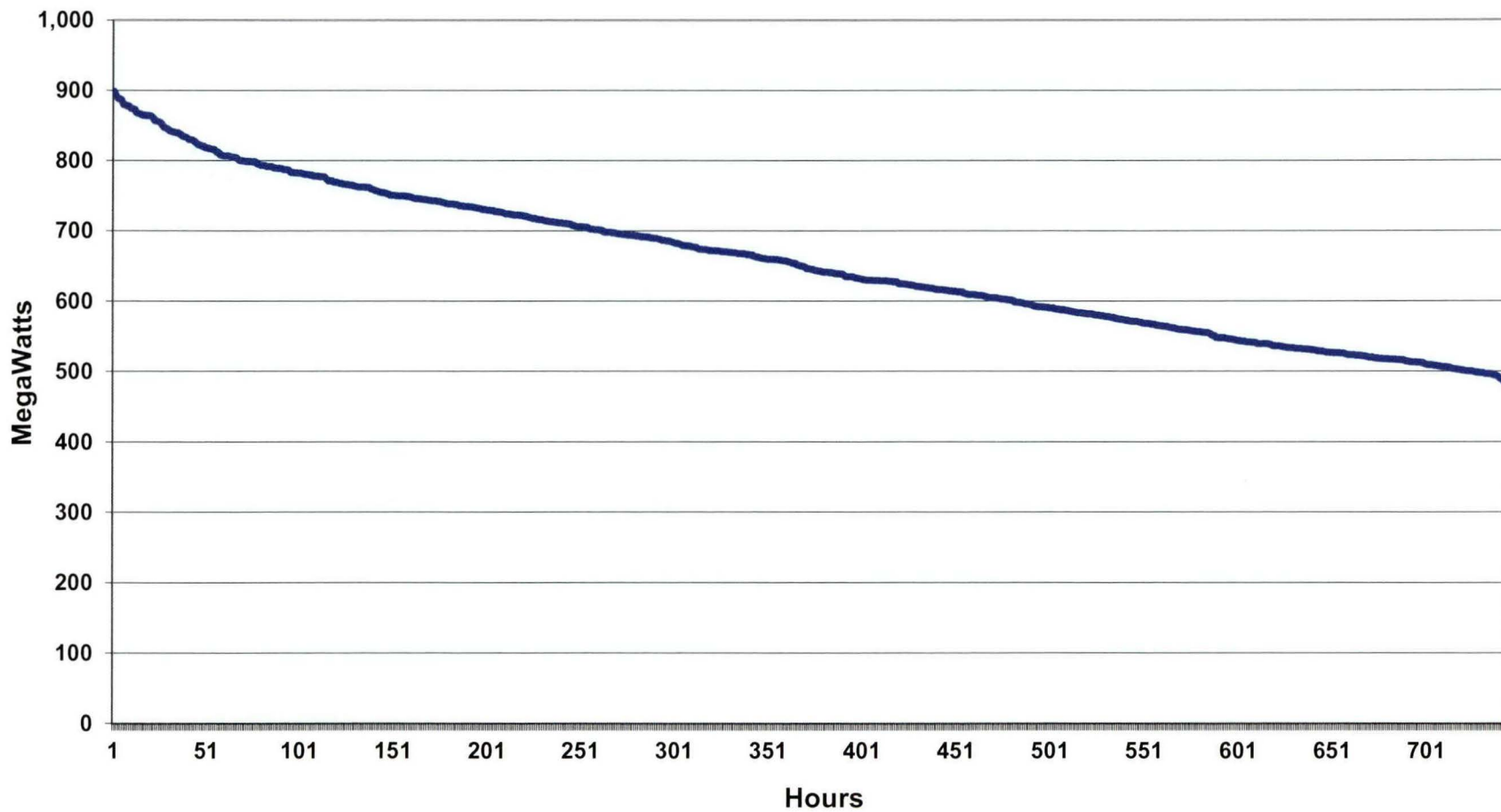
Kentucky Power Company March 2018 Load Duration Curve (Internal Load)



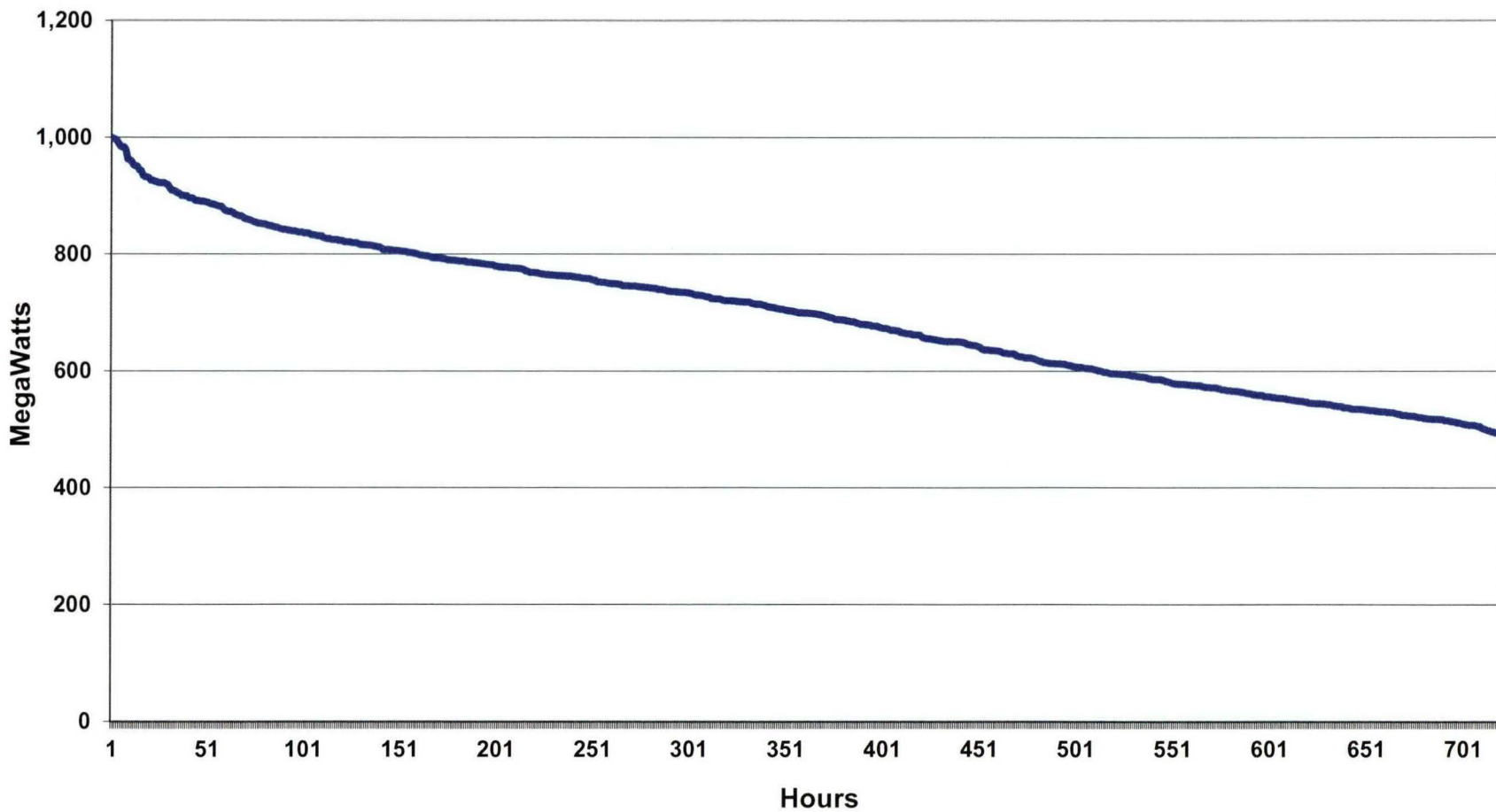
Kentucky Power Company April 2018 Load Duration Curve (Internal Load)



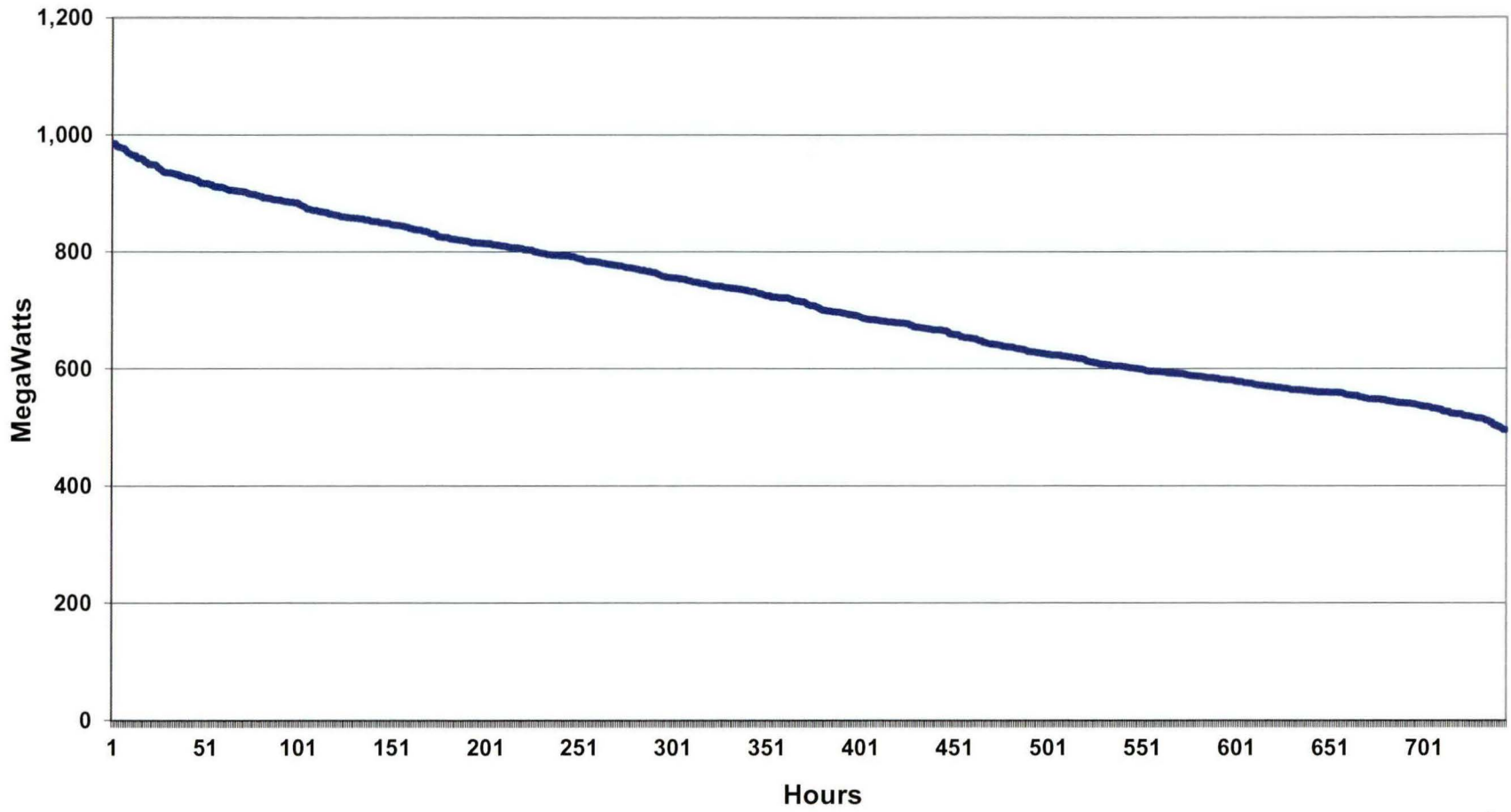
Kentucky Power Company May 2018 Load Duration Curve (Internal Load)



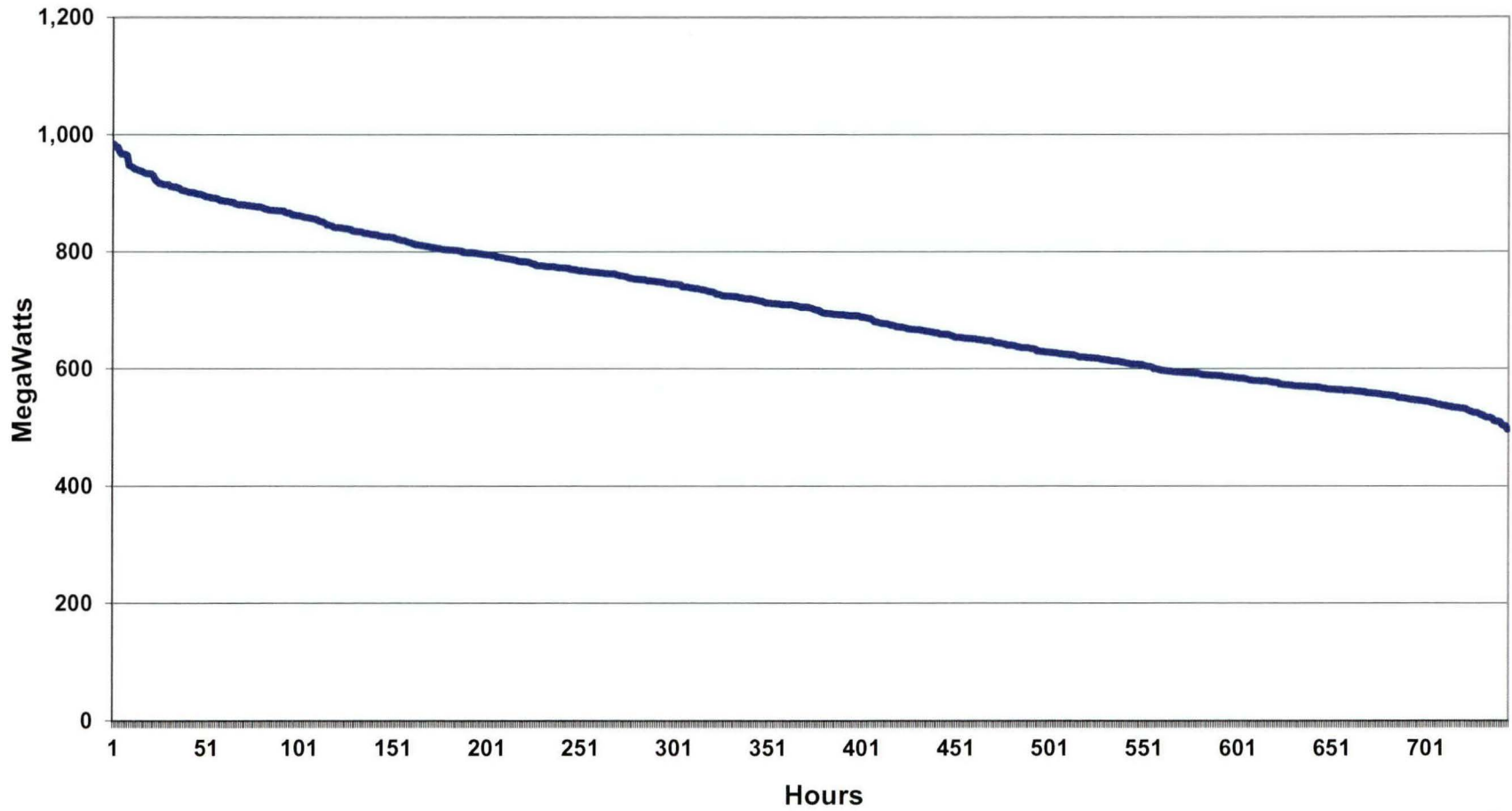
Kentucky Power Company June 2018 Load Duration Curve (Internal Load)



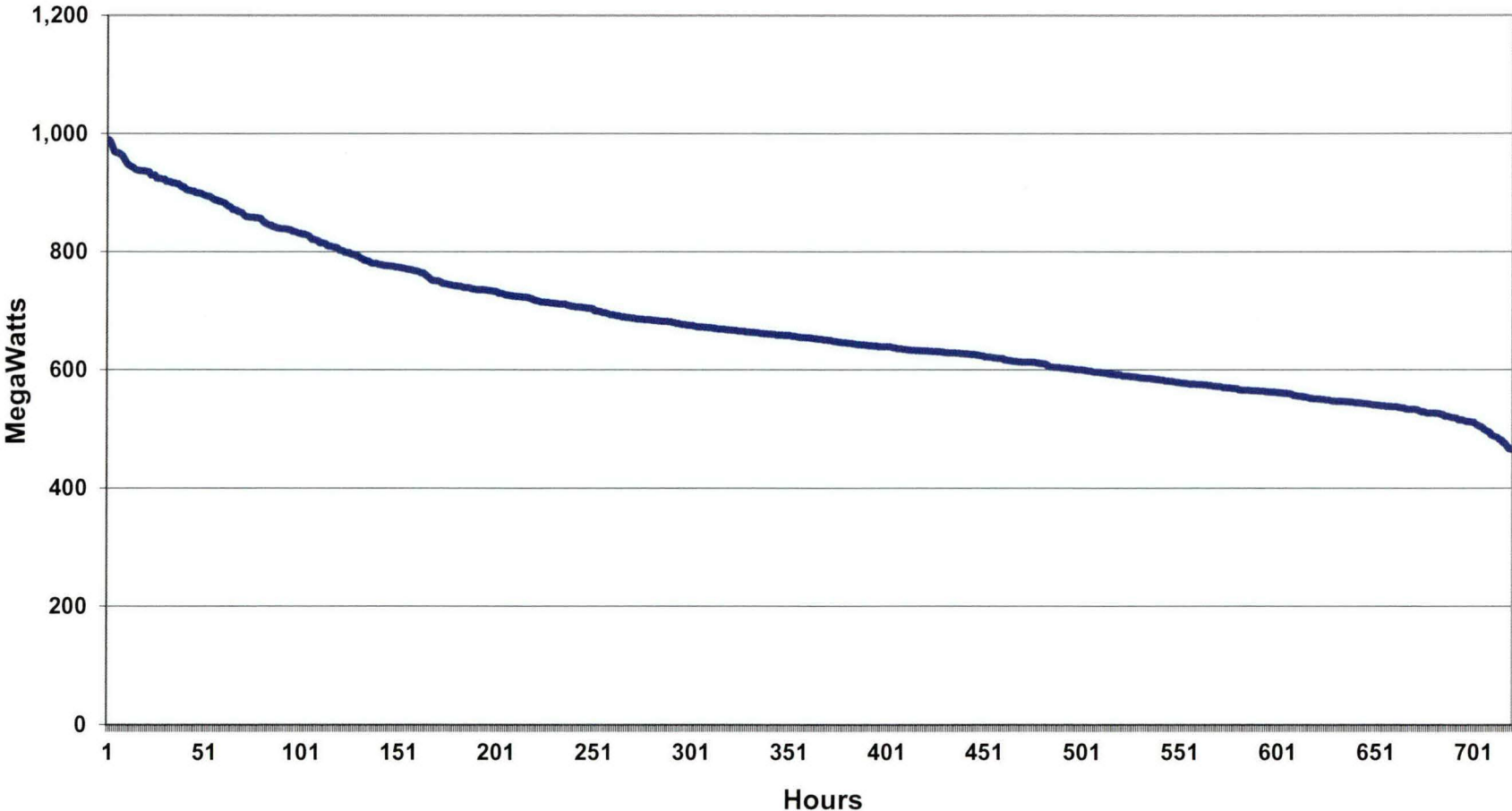
Kentucky Power Company July 2018 Load Duration Curve (Internal Load)



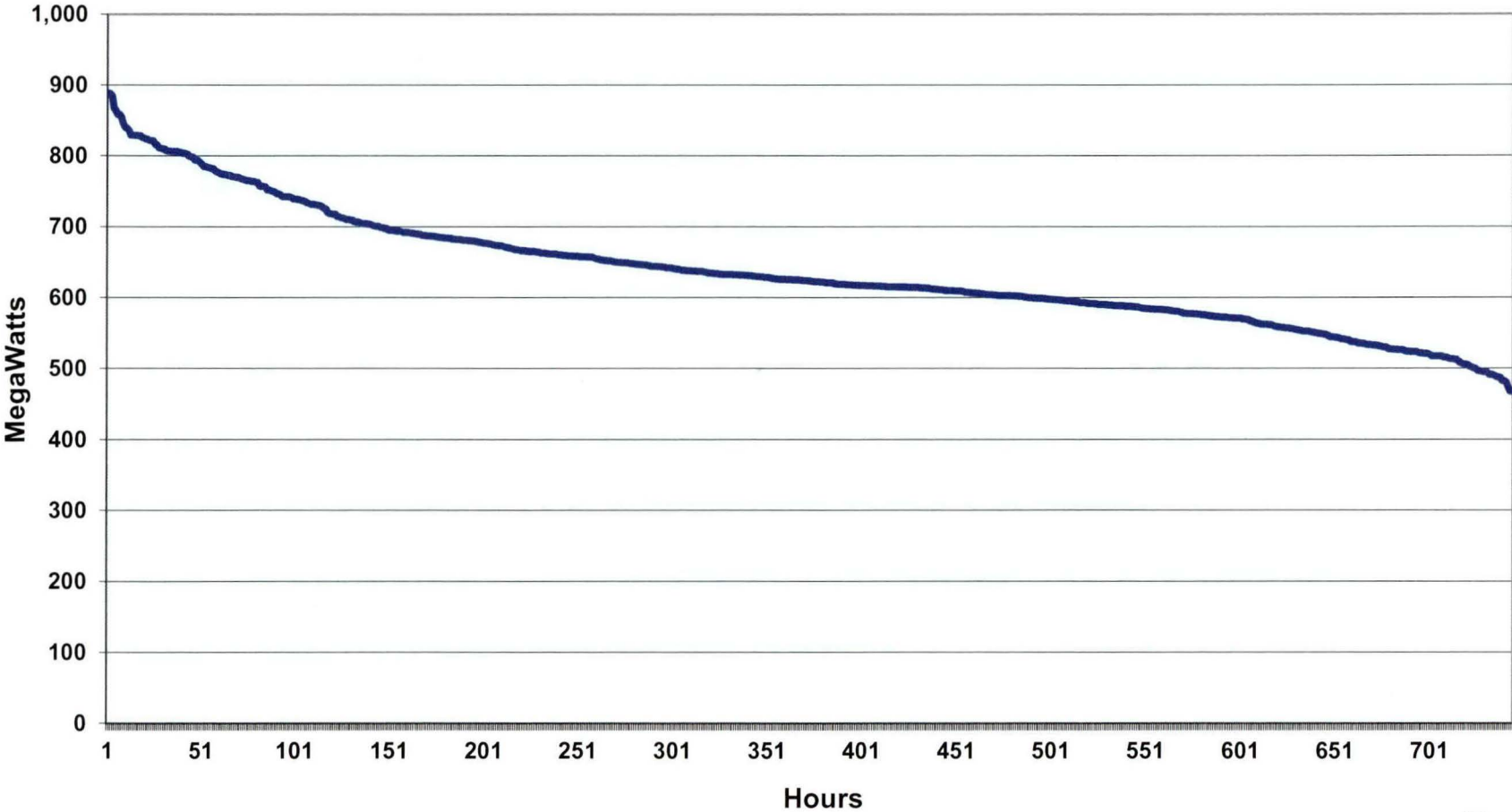
Kentucky Power Company August 2018 Load Duration Curve (Internal Load)



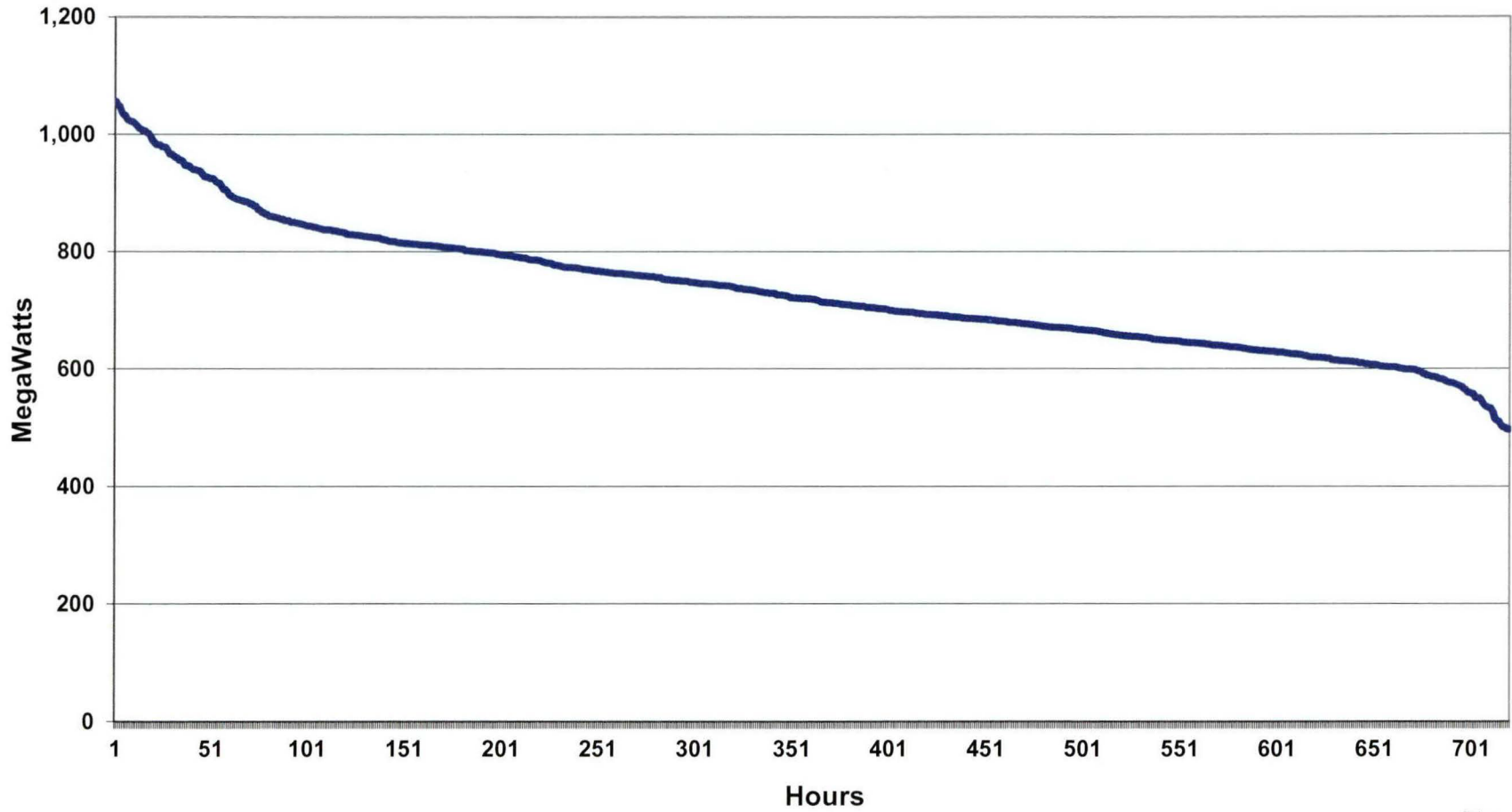
Kentucky Power Company September 2018 Load Duration Curve (Internal Load)



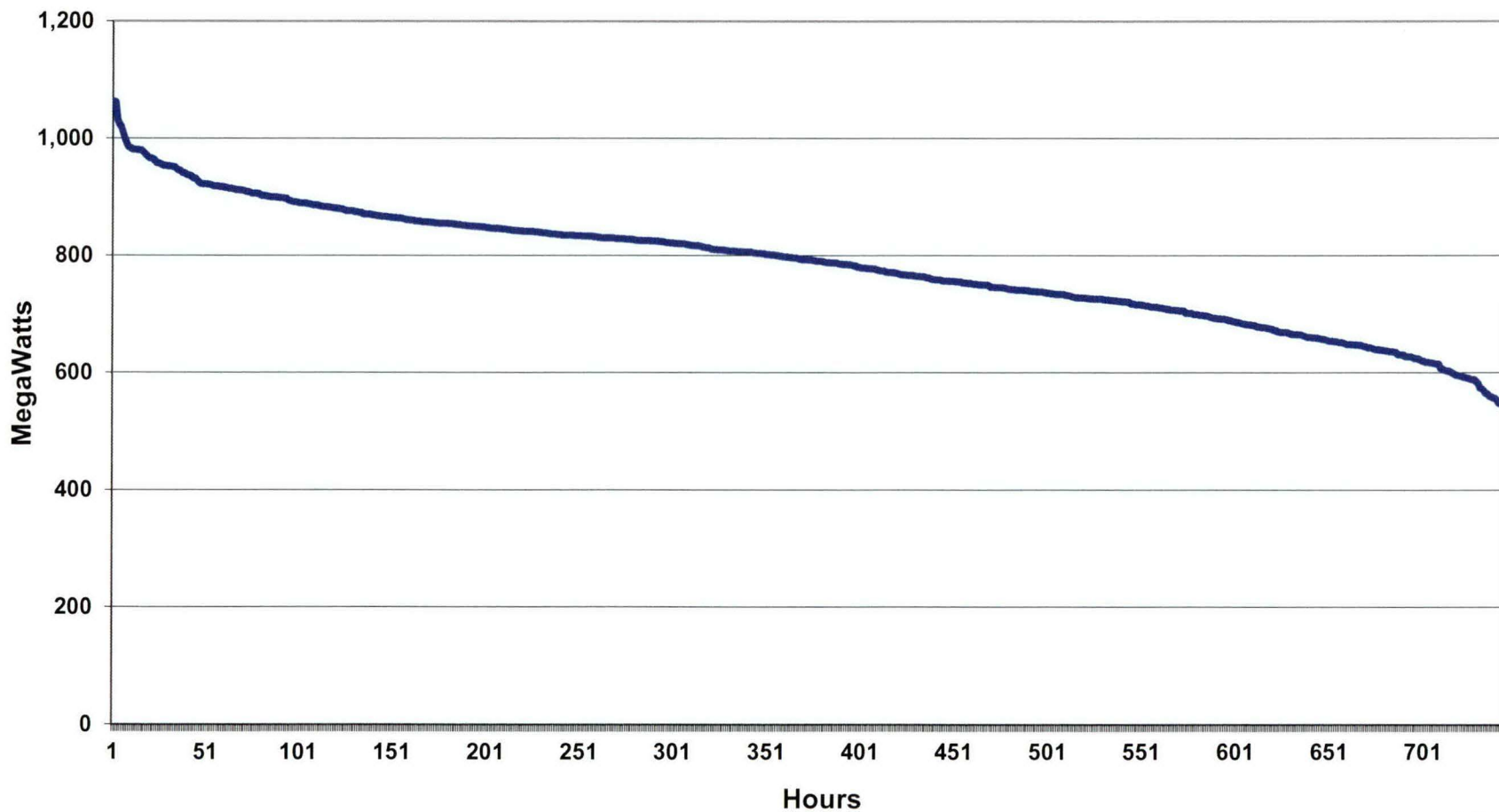
Kentucky Power Company October 2018 Load Duration Curve (Internal Load)



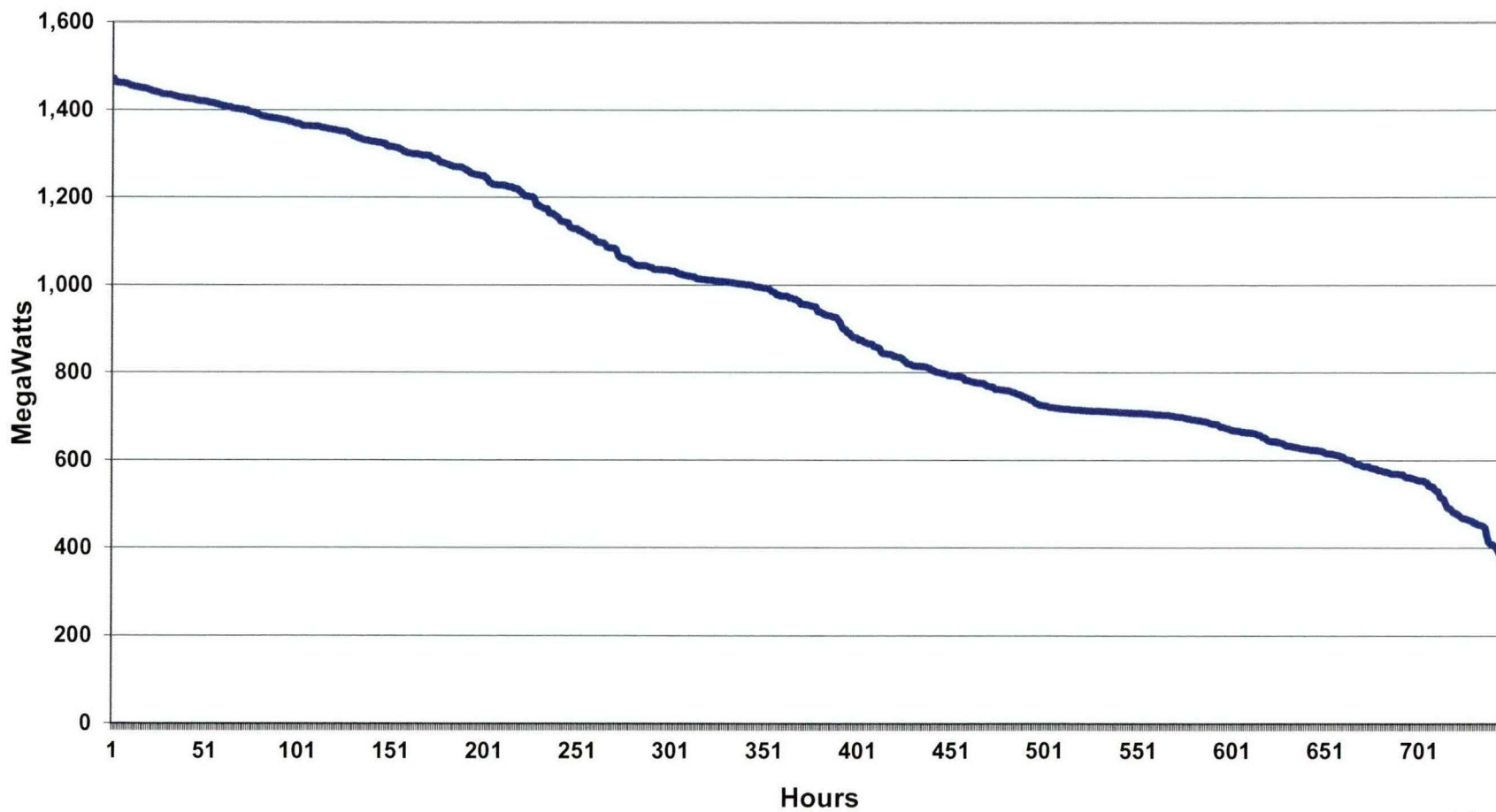
Kentucky Power Company November 2016 Load Duration Curve (Internal Load)



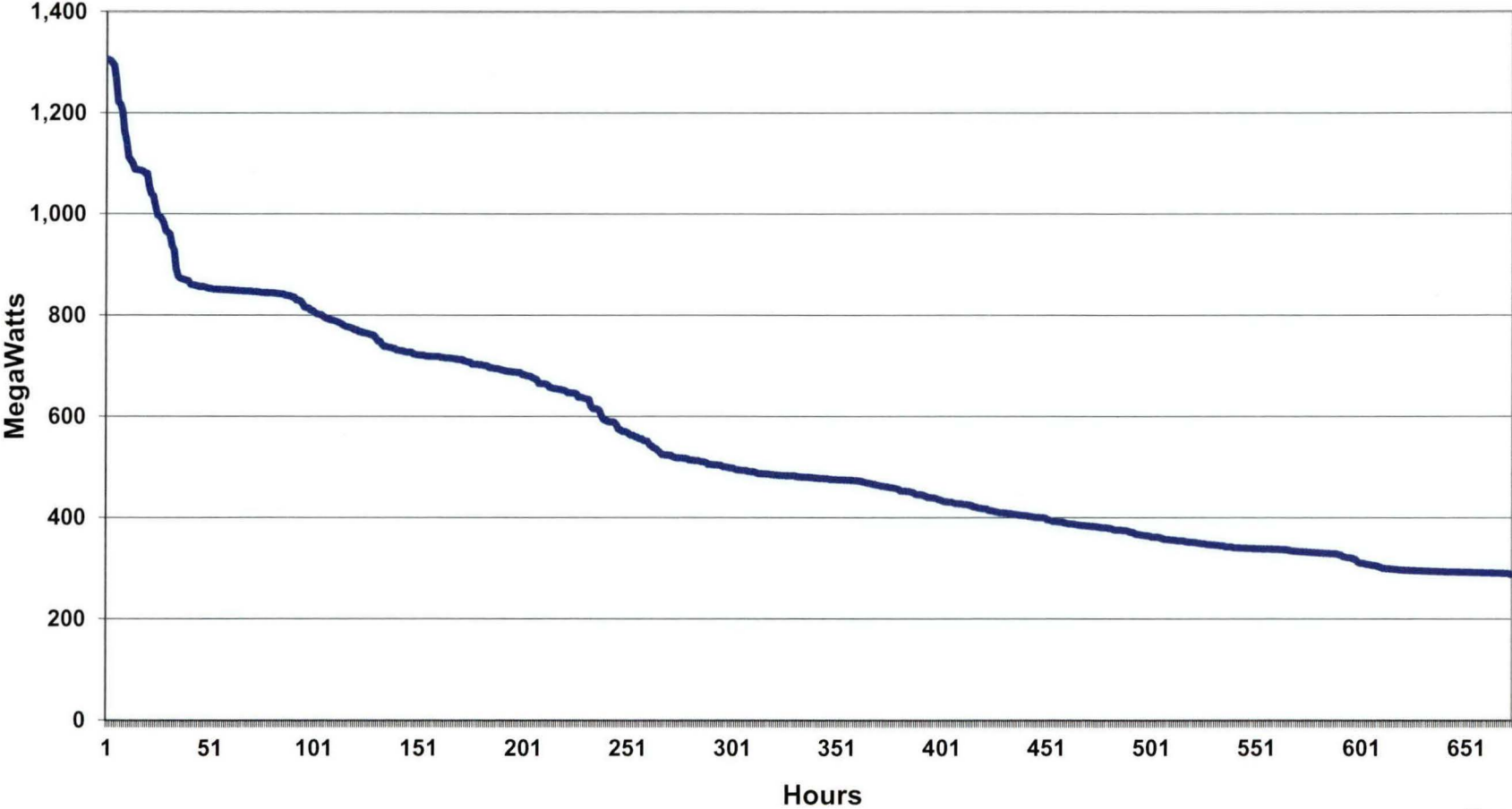
Kentucky Power Company December 2018 Load Duration Curve (Internal Load)



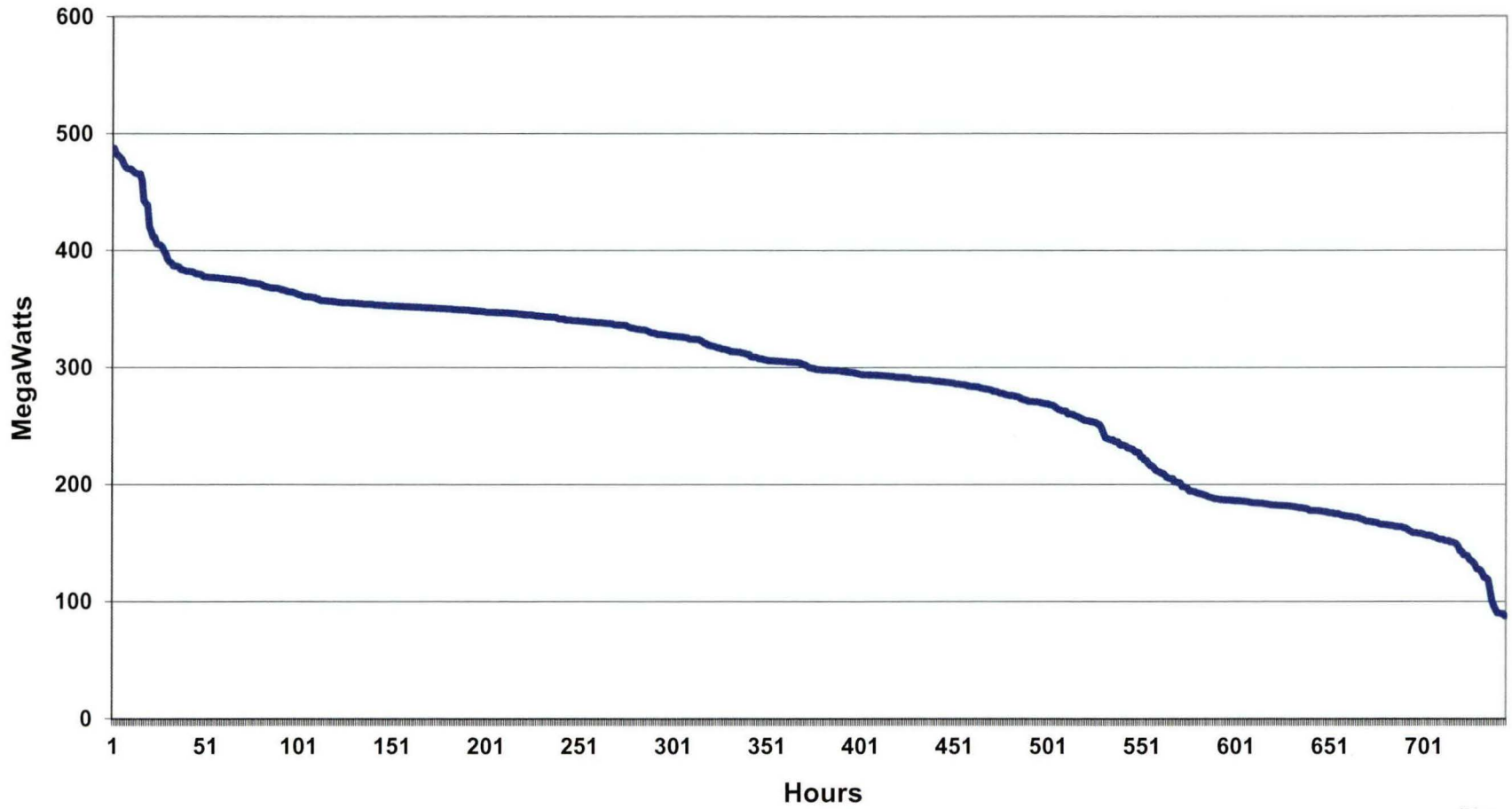
Kentucky Power Company January 2018 Load Duration Curve (System Load)



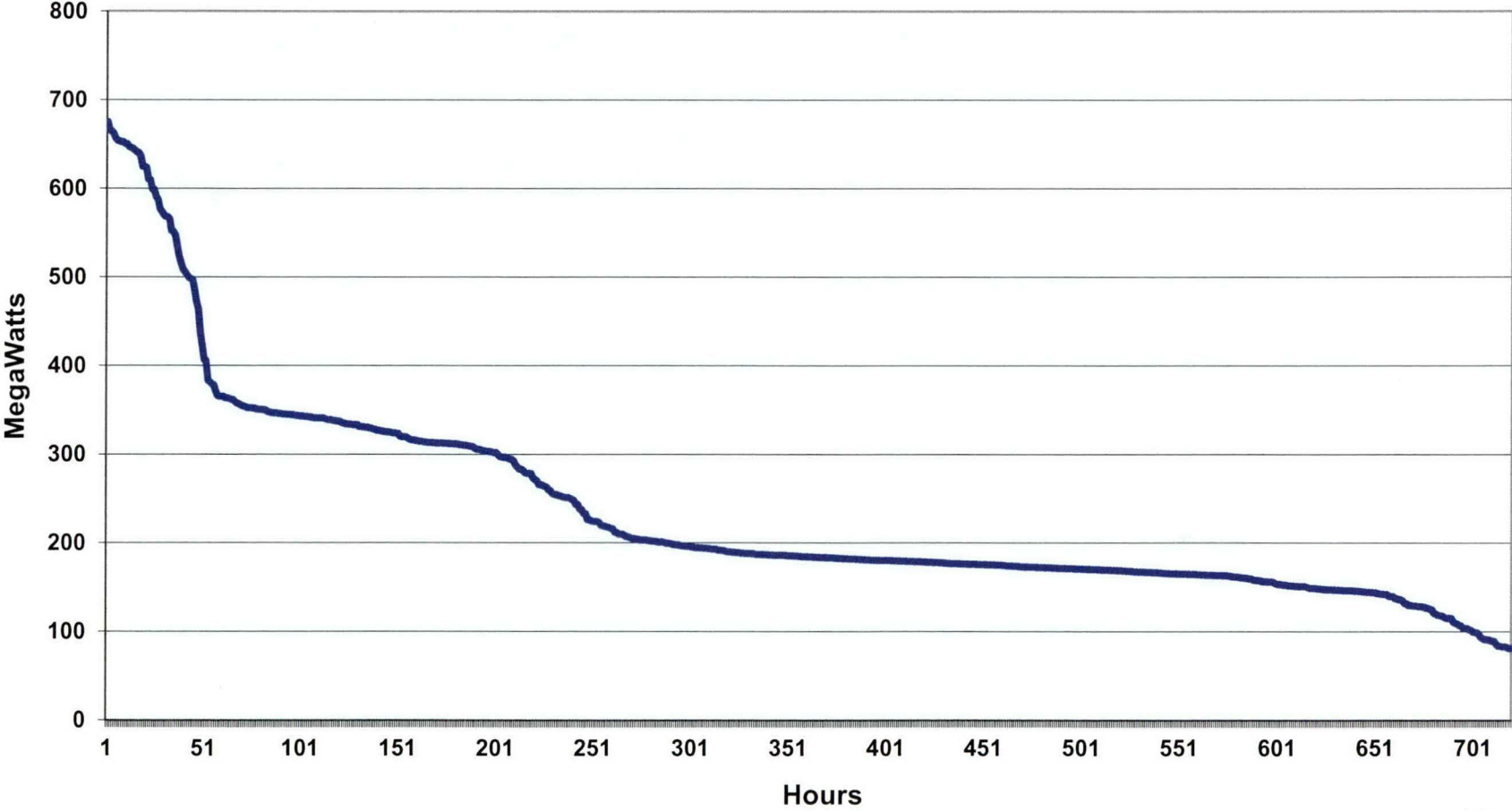
Kentucky Power Company February 2018 Load Duration Curve (System Load)



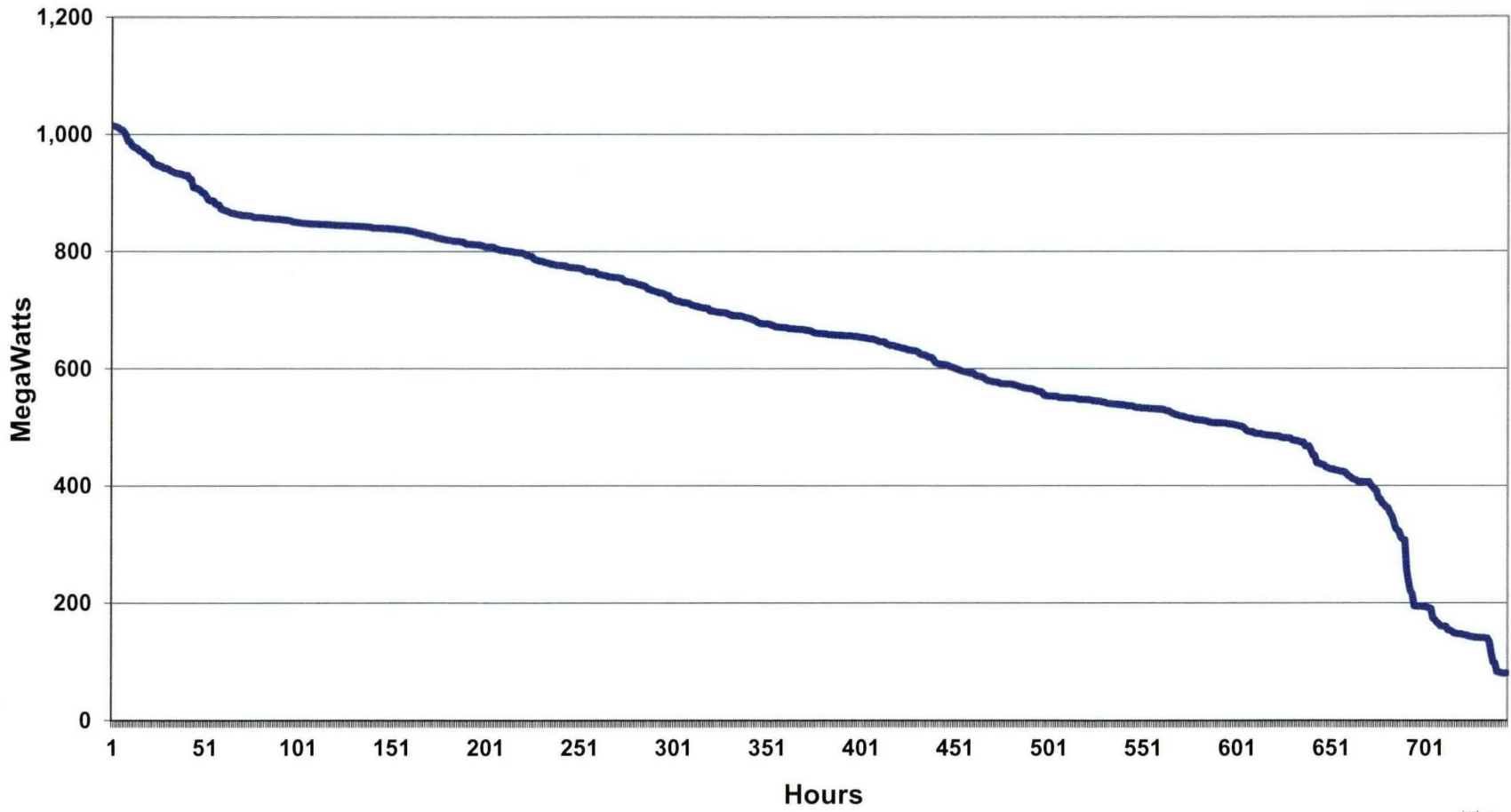
Kentucky Power Company March 2018 Load Duration Curve (System Load)



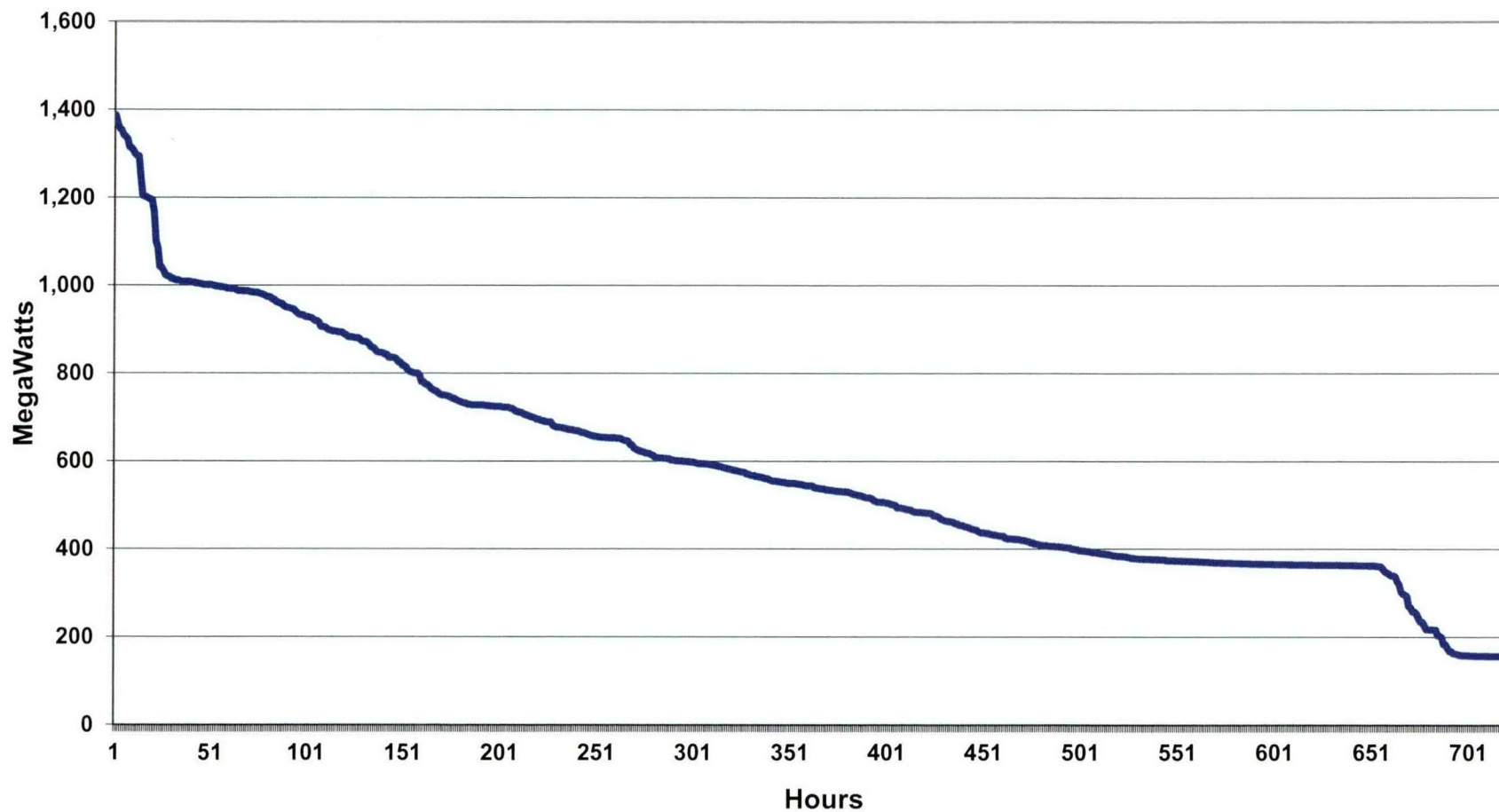
Kentucky Power Company April 2018 Load Duration Curve (System Load)



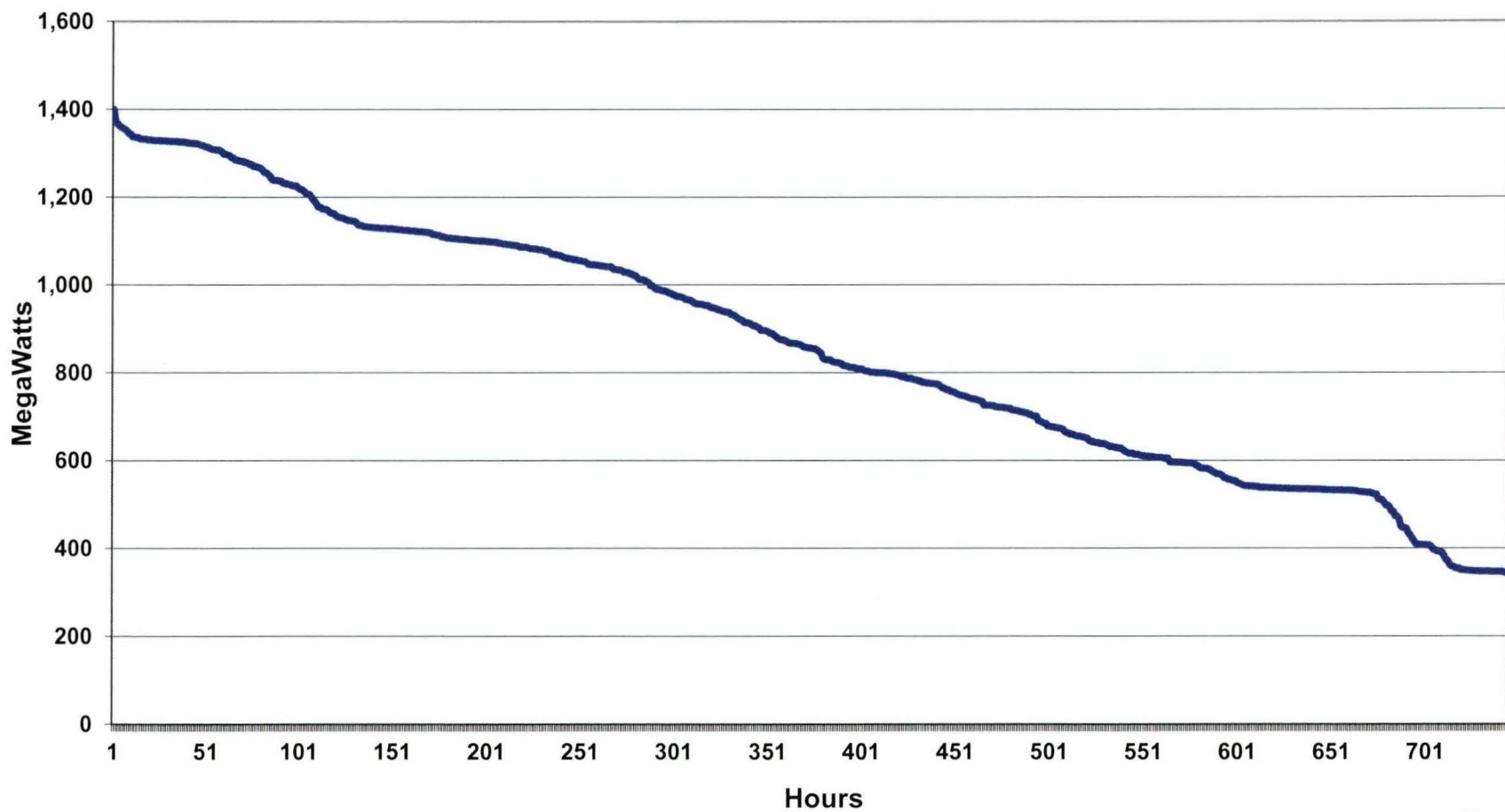
Kentucky Power Company May 2018 Load Duration Curve (System Load)



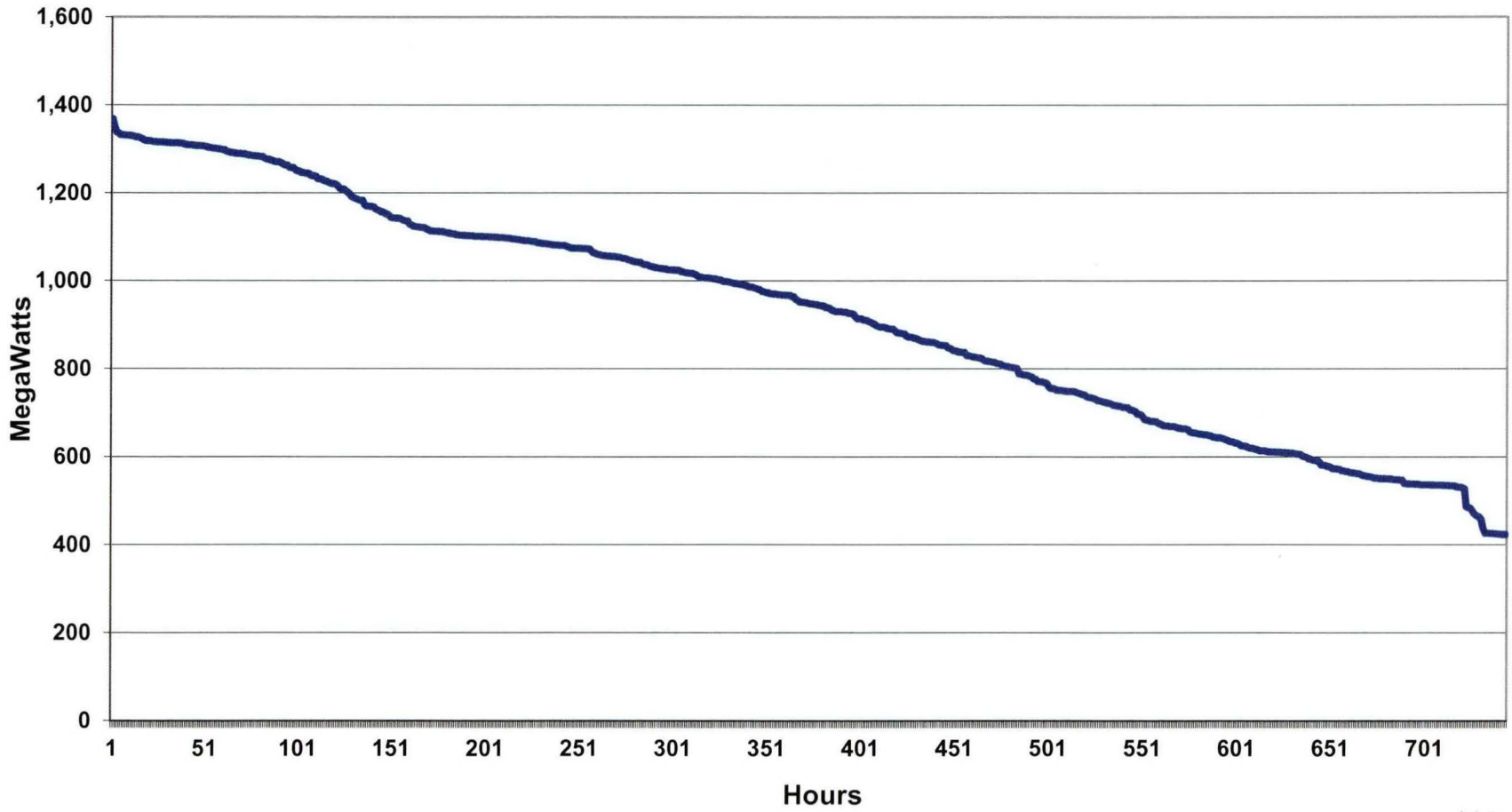
Kentucky Power Company June 2018 Load Duration Curve (System Load)



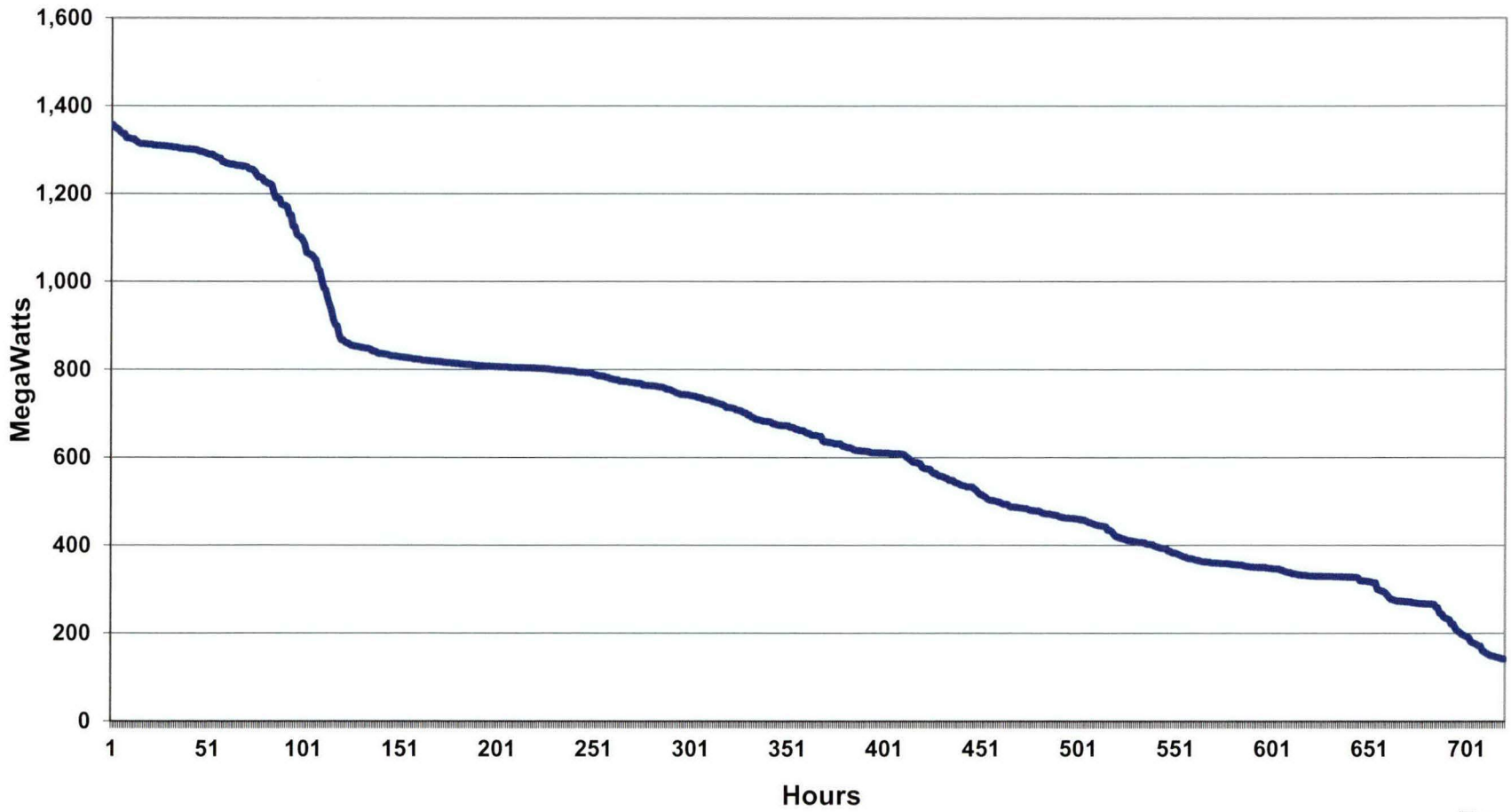
Kentucky Power Company July 2018 Load Duration Curve (System Load)



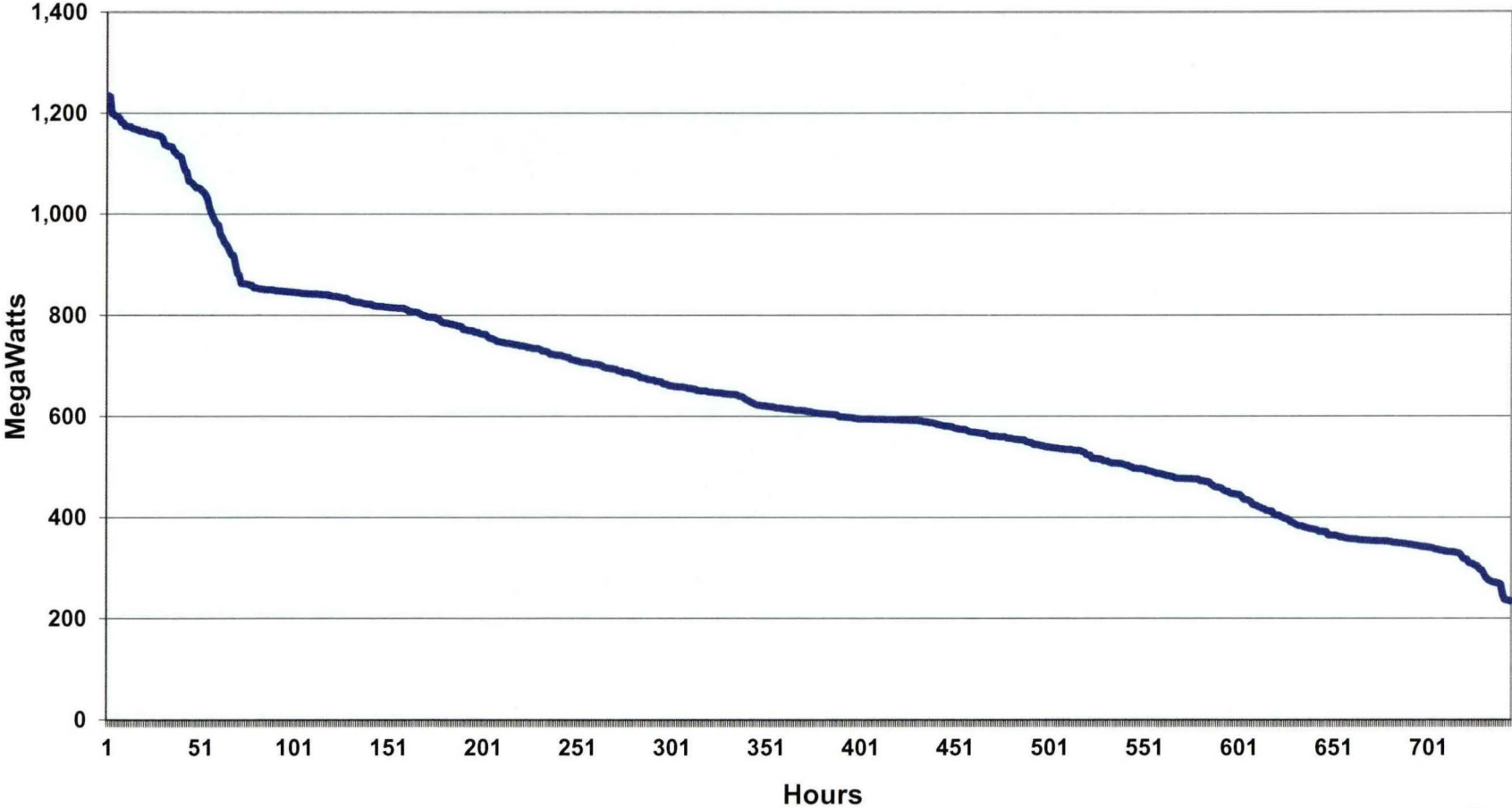
Kentucky Power Company August 2018 Load Duration Curve (System Load)



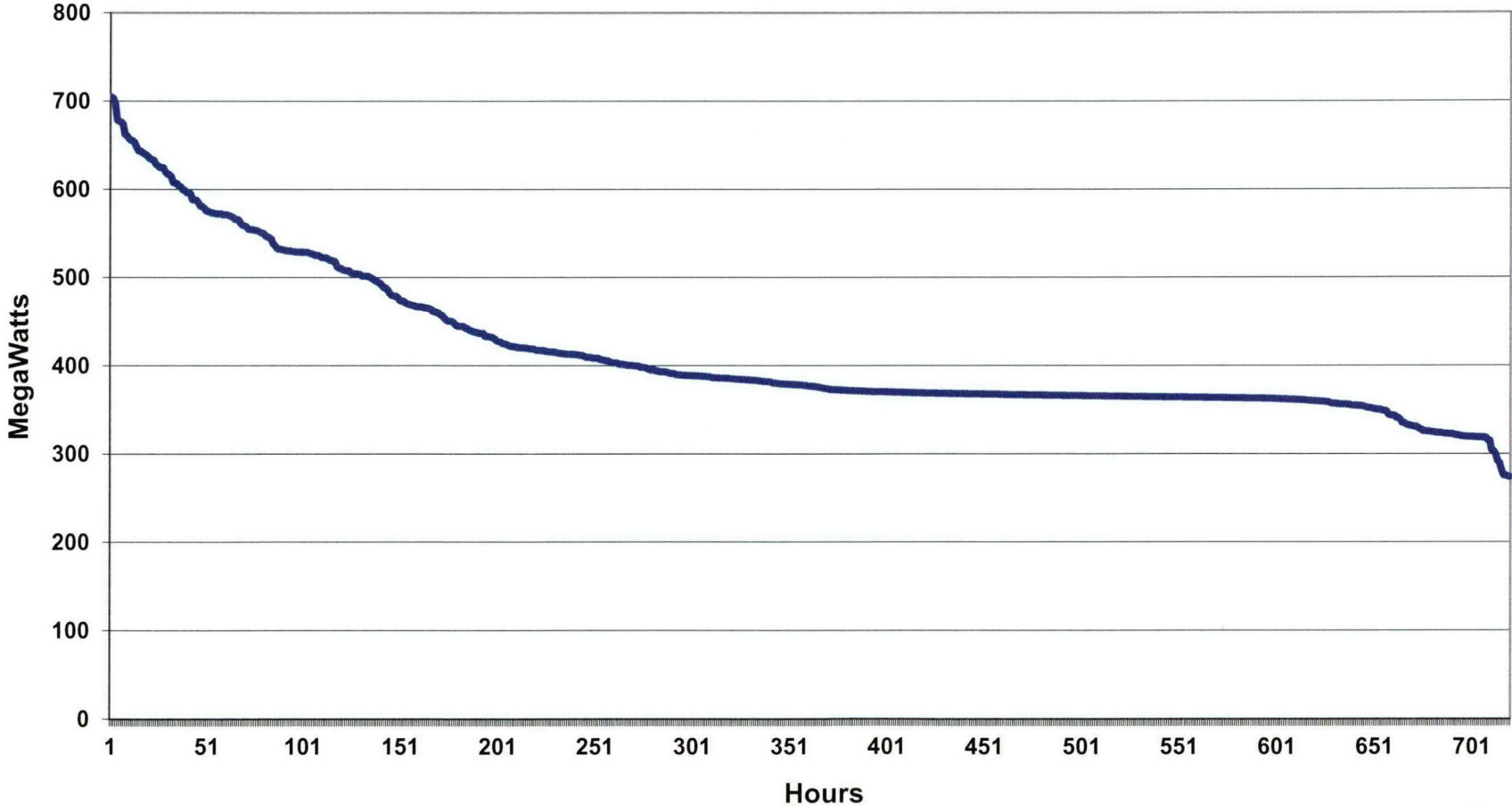
Kentucky Power Company September 2018 Load Duration Curve (System Load)



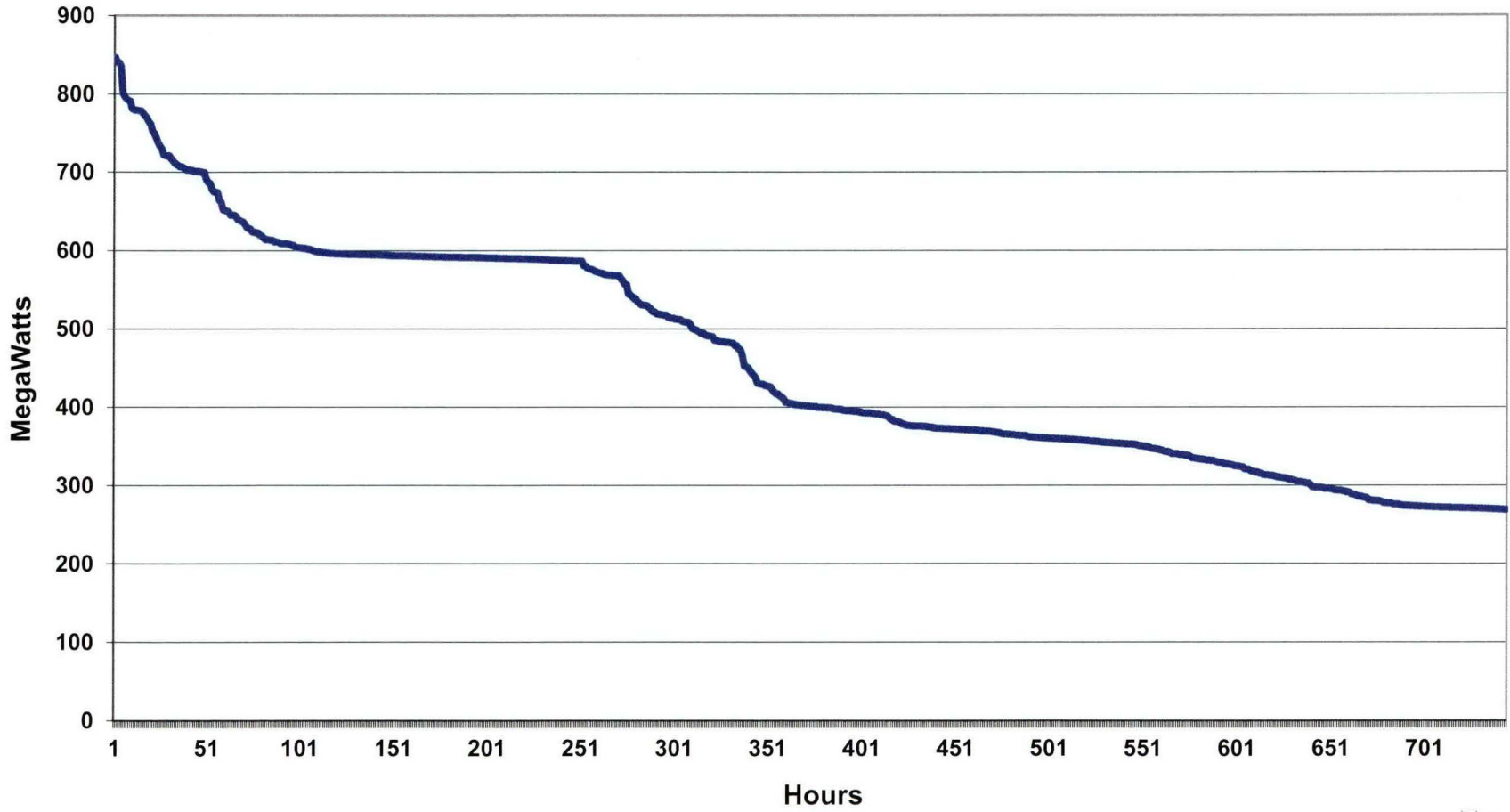
Kentucky Power Company October 2018 Load Duration Curve (System Load)



Kentucky Power Company November 2018 Load Duration Curve (System Load)



Kentucky Power Company December 2018 Load Duration Curve (System Load)



Kentucky Power Company
KPSC Administration Case No. 387
Order Dated December 20, 2001
Annual Resource Assessment

DATA REQUEST

KPSC 1_3 Based on the most recent demand forecast, the base case demand and energy forecasts and high case demand and energy forecasts for the current year and the following four years. The information should be disaggregated into (a) native load (firm and non-firm demand) and (b) off-system load (both firm and non-firm demand). Please provide the information for both Kentucky Power Company individually and the AEP-East Power Pool (pursuant to the Commission's December 13, 2004 Order in the Rockport UPSA extension, Case No. 2004-00420).

RESPONSE

Please refer to Page 1 of KPCO_R_KPSC_1_3_Attachment1 for Kentucky Power Company's forecast of seasonal peak internal demands and annual internal energy requirements. In addition, the associated high forecasts for seasonal peak internal demands and internal energy requirements are provided on Page 1.

The off-system energy sales forecasts for Kentucky Power Company are provided on Page 2 of KPCO_R_KPSC_1_3_Attachment1. Forecasts of off-system peak demand for Kentucky Power Company have not been developed and are not available. In addition, high case forecasts for off-system energy sales and peak demand have not been developed and are not available.

The AEP Interconnection Agreement terminated on January 1, 2014, and the AEP-East Power Pool no longer exists. The requested information regarding the AEP-East Power Pool no longer exists.

Witness: Brian K. West

**Kentucky Power Company
Base and High Forecast
Energy Sales (GWH) and Seasonal Peak Demand (MW)
2019 - 2023**

Year	Energy Sales		Summer Peak Demand		Preceding Winter Peak Demand	
	Base	High	Base	High	Base	High
2019	6,200	6,263	1,022	1,033	1,329	1,343
2020	6,188	6,290	1,033	1,050	1,339	1,361
2021	6,368	6,519	1,052	1,077	1,362	1,394
2022	6,345	6,518	1,049	1,078	1,354	1,391
2023	6,325	6,517	1,046	1,078	1,347	1,388

**Kentucky Power Company
Forecast Off-System Energy Sales (GWh)
2019 - 2023**

<u>Year</u>	<u>KPCo Off-System Sales</u>
2019	1,377
2020	1,260
2021	983
2022	904
2023	288

Kentucky Power Company
KPSC Administration Case No. 387
Order Dated December 20, 2001
Annual Resource Assessment

DATA REQUEST

KPSC 1_4 The target reserve margin currently used for planning purposes, stated as a percentage of demand. If changed from what was in use in 2001, include a detailed explanation for the change. Please provide the information for both Kentucky Power Company individually and the AEP-East Power Pool (pursuant to the Commission's December 13, 2004 Order in the Rockport UPSA extension, Case No. 2004-00420).

RESPONSE

The AEP-East operating companies are required to comply with the PJM mandated reserve margin following its October 1, 2004 integration of AEP's Eastern System into the PJM Interconnection.

The installed reserve margin requirement (IRM) is recalculated each year based on a five-year average of PJM generating units reliability, PJM load shape, and assistance available from neighboring regions. In addition, Kentucky Power's responsibility to PJM depends on its twelve-month history of generator reliability or Unforced Capacity value and its peak demand diversity in relation to the PJM total load.

For the delivery periods 2019/20 through 2023/24, PJM set the IRM at 16.0%, 15.9%, 15.8%, 15.7%, and 15.7%, respectively. Kentucky Power assumed the same IRM levels for PJM and other planning purposes.

The AEP Interconnection Agreement terminated on January 1, 2014, and the AEP-East Power Pool no longer exists. The requested information regarding the AEP-East Power Pool no longer exists.

Witness: Brian K. West

Kentucky Power Company
KPSC Administration Case No. 387
Order Dated December 20, 2001
Annual Resource Assessment

DATA REQUEST

KPSC 1_5 Projected reserve margins stated in megawatts and as a percentage of demand for the current year and the following 4 years. Identify projected deficits and current plans for addressing these. For each year identify the level of firm capacity purchases projected to meet native load demand. Please provide the information for both Kentucky Power Company individually and the AEP-East Power Pool (pursuant to the Commission's December 13, 2004 Order in the Rockport UPSA extension, Case No. 2004-00420)

RESPONSE

KPCO_R_KPSC_1_5_Attachment1 provides projected PJM peak demands, capabilities, and margins for Kentucky Power for PJM Planning Years 2019/20 through 2023/24. The Company expects to fully address its future resource needs in its next Integrated Resource Plan filing in December 2019.

The AEP Interconnection Agreement terminated on January 1, 2014, and the AEP-East Power Pool no longer exists. The requested information regarding the AEP-East Power Pool no longer exists.

Witness: Brian K. West

KENTUCKY POWER COMPANY
Projected PJM Peak Demands, Generating Capabilities, and Margins

PJM Planning	Peak Demand - MW						Capacity - MW							Reserve Margin		Reserve Margin		PJM UCAP Position After Interruptible w/ New Capacity		
	Internal Demand	Inter-ruptible Demand Response	DSM	Net KPCo Internal Demand	Net Other Committed Sales	Total KPCo Demand	Existing Capacity & Planned Changes(d)	Committed Net Sales	Name/ Identifier (e)	Annual Purch. MW	Total ICAP Capacity	KPCo Company-wide EFORd	Available UCAP	Before Interruptible w/ New Capacity	% of Demand	After Interruptible w/ New Capacity	% of Demand	PJM FPR (%)	Net Position MW	
	(a)	(b)	(c)	(4)=sum(1 thru 3)	(5)	(6)=(4)+(5)	(7)	(8)	(9)	(10)	(11)	(12)=(7)-(8)+Sum(10)+(11)	(13)	(14) = (12)/(1-(13))	(15)=(14)-(6)-(2)	(16)=(15)/(6)-(2)*100	(17)=(14)+(6)	(17)=(15)/(6)-(2)*100	(18)	(14)-(6)-(1+(18))
														MW	% of Demand	MW	% of Demand			
2019 /20	982	0	0	982	0	982	1,452	8				1,444	10.87%	1,287	305	31.1	305	31.1	1.0895	217
2020 /21	978	0	0	978	0	978	1,452					1,452	10.38%	1,301	323	33.0	323	33.0	1.0890	236
2021 /22	983	0	0	983	0	983	1,452	75 MW Wind + 20 MW Solar	19.4			1,471	10.38%	1,319	336	34.2	336	34.2	1.0884	249
2022 /23	989	0	0	989	0	989	1,452					1,471	10.38%	1,319	330	33.4	330	33.4	1.0887	242
2023 /24	1,013	1	0	1,014	0	1,014	1,060					1,079	12.74%	942	(71)	(7.0)	(72)	(7.1)	1.0887	(162)

- Notes: (a) Based on Aug. update of (June 2018) Load Forecast (with implied PJM diversity factor).
- (b) Demand Response approved by PJM in the prior planning year plus forecasted "Active" DR.
- (c) Existing plus approved and projected "Passive" EE, and VVO. DSM is included in the PJM forecast.
- (d) Rockport 2 lease ends 12/07/2022, however, for current capacity planning purposes the Company is assuming that the Rockport 2 capacity is available for the PJM planning year 2022/2023. The final decision is yet to be made.
- (e) All Planned Capacity Additions are the supply side resources identified as part of KPCo's 2016 IRP beginning with the 2021/22 planning year due to development and implementation time. Due to the new PJM Capacity Performance rules - wind and solar are given a capacity credit equal to 12.3% and 51.1% of their nameplate respectively.
- (f) Forecast Pool Requirement (FPR) = (1 + IRM) * (1 - PJM EFORd)

Kentucky Power Company
Kpsc Administration Case No. 387
Order Dated December 20, 2001
Annual Resource Assessment

DATA REQUEST

Kpsc 1_6 A list that identifies scheduled outages or retirements of generating capacity during the current year and the following four years.

RESPONSE

For a list of scheduled outages for the years 2019 – 2023, please see attachments KPCO_R_Kpsc_1_6_Attachment1 and KPCO_R_Kpsc_1_6_ConfidentialAttachment2.

The Rockport Unit Power Agreement with AEP Generating Company (AEG), under which the Company purchases 30% of AEG's 50% share of the output of the Rockport Plant (393 MW), expires in December 2022.

Witness: Brian K. West

Kentucky Power Company Generating Unit Scheduled Outages for the Period January - March 2019			
Unit Name	Event Start	Event End	Event Description
Big Sandy 1	1/16/2019 1:02	1/19/2019 0:00	Boiler inspection and repair.
Big Sandy 1	1/22/2019 22:02	1/25/2019 15:10	Boiler inspection and repair.
Big Sandy 1	2/2/2019 13:47	2/15/2019 16:00	High pressure turbine cross-over piping south inlet flange leak and boiler inspection and repair.
Big Sandy 1	2/21/2019 0:29	2/23/2019 7:51	Boiler inspection and repair.
Big Sandy 1	3/9/2019 1:36	3/10/2019 8:00	Boiler inspection and repair.
Big Sandy 1	3/13/2019 12:51	3/16/2019 20:45	Boiler inspection and repair.
Big Sandy 1	3/30/2019 0:23	4/1/2019 9:45	Boiler inspection and repair.
Mitchell 1	3/9/2019 0:33	5/26/2019 0:00	Precipitator upgrade, economizer partition wall replacement, stack breaching damper modification, generator FIP inspection, main turbine valve repairs, and routine inspections.
Mitchell 2	1/4/2019 7:00	1/5/2019 9:00	Boiler feedpump turbine stop valve repairs.
Mitchell 2	2/4/2019 6:08	2/13/2019 23:20	Repair LVDT on left 1st reheat turbine stop valve, LVDT on boiler feedpump turbine stop valve, boiler inspection and repair, precipitator inspection and repair, ID fan casing leak repairs and pipe hanger repairs.

Kentucky Power Company
KPSC Administration Case No. 387
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Annual Resource Assessment

DATA REQUEST

KPSC 1_7

Identify all planned base load or peaking capacity additions to meet native load requirements over the next 10 years. Show the expected in service date, size and site for all planned additions. Include additions planned by the utility, as well as those by affiliates, if constructed in Kentucky or intended to meet load in Kentucky. Please provide the information for both Kentucky Power Company individually and the AEP-East Power Pool (pursuant to the Commission's December 13, 2004 Order in the Rockport UPSA extension, Case No. 2004-00420).

RESPONSE

Kentucky Power does not plan to add base load or peaking capacity to meet native load requirements over the next 10 years.

Kentucky Power's 2016 Integrated Resource Plan projected as part of its Preferred Plan the addition of 320 MW of solar and wind resources during the 2017 through 2021 time period. The Preferred Plan was not a commitment by Kentucky Power to the identified specific resource additions. Due to development and implementation constraints, the timing and size of these resources, as detailed in the 2016 IRP, have been reduced and deferred as identified in columns 9 and 10 of KPCO_R_KPSC_1_5_Attachment1. The Company expects to fully address its future resource needs in its next Integrated Resource Plan filing in December 2019.

The AEP Interconnection Agreement terminated on January 1, 2014, and the AEP-East Power Pool no longer exists. The requested information regarding the AEP-East Power Pool no longer exists.

Witness: Brian K. West

Kentucky Power Company
KPSC Administration Case No. 387
Order Dated December 20, 2001
Annual Resource Assessment

DATA REQUEST

KPSC 1_8 a&b

The following transmission energy data for the just completed calendar year and the forecast for the current year and the following four years:

- a. Total energy received from all interconnections and generation sources connected to the transmission system.
- b. Total energy delivered to all interconnections on the transmission system.

RESPONSE

Please see KPCO_R_KPSC_1_8a__8b_Attachment1 for the requested information.

Witness: Brian K. West

8(a) All quantities represent metered values.

<u>Received from (MWh):</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
	<u>(Actual)</u>	<u>(Actual)</u>	<u>(Actual)</u>	<u>(Actual)</u>	<u>(Actual)</u>	<u>(Actual)</u>	
Appalachian Power (1)	4,631,523	5,171,726	4,017,819	4,720,669	5,890,958	4,684,108	(4)
Ohio Power (1)	10,066,676	9,354,195	9,802,944	9,333,487	8,911,083	8,311,169	(4)
East Ky Power Coop	386,124	294,361	271,558	300,264	281,573	255,874	(4)
LGE(Kentucky Utilities)	565,818	623,285	533,642	392,126	372,296	514,195	(4)
TVA	566,823	460,644	431,204	310,003	328,457	434,753	(4)
Illinois Power Co. (2)	111,628	84,189	380,121	319,112	257,896	429,424	(5)
Illinois Power Co. (3)	89,276	67,185	193,480	204,194	173,916	261,051	(5)
Big Sandy Generating Plant	2,764,447	4,708,473	3,132,143	530,333	563,778	624,804	546,030
Mitchell 1&2 (KPCo Share 50%)		4096020	2,688,981	3,814,606	3,820,609	2,714,974	3,243,554 (7)
Rockport (KPCo Share 15%)		2507563.5	1,866,891	1,727,064	1,631,917	1,777,423	1,863,417 (7)

8(b) All quantities represent metered values.

<u>Delivered to (MWh):</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
Appalachian Power (1)	11,550,084	13,038,290	11,369,584	9,073,136	10,111,259	8,585,984	(4)
Ohio Power (1)	371,910	433,763	440,883	509,828	454,121	435,997	(4)
East Ky Power Coop	136,118	236,884	240,042	291,229	245,640	289,530	(4)
LGE(Kentucky Utilities)	0	0	0	0	0	0	(4)
TVA	0	0	0	0	0	0	(4)
Illinois Power Co. (2)	0	0	0	0	0	0	(5)
Illinois Power Co. (3)	0	0	0	0	0	0	(5)
Vanceburg and Olive Hill	95,502	96,494	90,532	85,455	80,426	86,019	(6)

Notes: (1) An AEP System company.

(2) At the Zelda Unit of the Riverside independent power producing plant (IPP) in Lawrence County, KY.

(3) At the Foothills Unit of the Riverside independent power producing plant (IPP) in Lawrence County, KY.

(4) The Company does not forecast metered interchange; however, the future years' energy flows are not expected to be materially different from the year 2015 actuals.

(5) The Company does not, and can not, forecast energy production output from an IPP.

(6) This is a 3rd Party Firm Load that is served by Kentucky Power.

(7) Net Generation less Non-generating auxiliaries shares from Mitchell Power Plant and Rockport are from Plants not directly connected to the KPCo system.

Kentucky Power Company
KPSC Administration Case No. 387
Order Dated December 20, 2001
Annual Resource Assessment

DATA REQUEST

KPSC 1_8 c&d

The following transmission energy data for the just completed calendar year and the forecast for the current year and the following four years.

c. Peak load capacity of the transmission system.

d. Peak demand for summer and winter seasons on the transmission system.

RESPONSE

c. The maximum amount of electric energy that can be transmitted through a transmission network is a function of the level of the load and generation connected to the transmission system, as well as the level and direction of transmission service into, out of, and through the network. Therefore, the 'Peak Load Capacity' of the transmission system cannot be quantified as a single value.

The Kentucky Power transmission system, including planned additions, rebuilds, and upgrades of the system, is designed to serve both the existing and projected load. It is also designed to reliably serve the load in connection with any single contingency outage of a line, transformer, or generator. The existing transmission system, together with the transmission capacity additions described in response to KPCO_R_KPSC_1_9_ConfidentialAttachment1, will provide adequate capacity to serve the existing and projected loads provided in the response to part d of this request.

d. Please refer to KPCO_R_KPSC_1_8d_Attachment1 for the peak demand for summer and winter seasons on the transmission system.

Witness: Brian K. West

Kentucky Power Company
Seasonal Peak Demand
Actual 2018 and Forecast 2019-2023

Year	Summer Peak Demand (MW)	Preceding Winter Peak Demand (MW)
2018	999*	1,446*
2019	1,022	1,329
2020	1,033	1,339
2021	1,052	1,362
2022	1,049	1,354
2023	1,046	1,347

***Based on Actual Data**

Kentucky Power Company
KPSC Administration Case No. 387
Order Dated December 20, 2001
Annual Resource Assessment

DATA REQUEST

KPSC 1_9 Identify all planned transmission capacity additions for the next 10 years. Include the expected in-service date, size and site for all planned additions and identify the transmission need each addition is intended to address.

RESPONSE

Please refer to KPCO_R_KPSC_1_9_ConfidentialAttachment1 for the requested information.

Witness: Brian K. West

**ALL CAPACITIES AND IN-SERVICE DATES ARE
APPROXIMATE AND SUBJECT TO CHANGE**

Hazard – Wooton 161 kV Project – This project addresses thermal violations, equipment material condition, performance, and risk concerns identified with the Hazard-Wooton 161 kV line and 161/138 kV transformer. Specifically, this project will rebuild approximately 6.6 miles of the Hazard - Wooton 161 kV line and replace three, single phase 161/138 kV transformers at Hazard with a single higher capacity three phase transformer. Additionally, the existing 138/69 kV transformers at Hazard are being evaluated for replacement, due to identified equipment material condition, performance, and risk concerns. The revised in-service date for this project is June 2021.

Hazard – Wooton 161 kV Line

Existing Summer Emergency Conductor Capacity: 215 MVA

Proposed Summer Emergency Conductor Capacity: 390 MVA

Hazard 161/138 kV Transformer

Existing Nameplate Capacity: 135 MVA

Proposed Nameplate Capacity: 350 MVA

Hazard 138/69 kV Transformer #1

Existing Nameplate Capacity: 50 MVA

Proposed Nameplate Capacity: 130 MVA

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Leslie Transformer Replacement – This project will replace the 161/69 kV transformer at Leslie station. The transformer is being replaced, due to insulation and short circuit strength breakdown. The current projected in-service date for the transformer replacement is December 2021

Leslie Transformer

Existing Nameplate Capacity: 90 MVA
Proposed Nameplate Capacity: 130 MVA

Cannonsburg – South Neal 69 kV Line Section Rebuild – To address thermal violations, this project will rebuild approximately 5 miles of the Cannonsburg – South Neal 69 kV line. The current projected in-service date for the project is December 2019.

Cannonsburg - South Neal 69 kV Line

Existing Summer Emergency Conductor Capacity: 75 MVA
Proposed Summer Emergency Conductor Capacity: 102 MVA

Dorton Transformer Replacement – This project will replace the 138/46 kV transformer at Dorton station with a 138/69/46 kV transformer. The transformer is being replaced, due to insulation and short circuit strength breakdown. The current projected in-service date for the transformer replacement is December 2019.

Dorton Transformer

Existing 46 kV Nameplate Capacity: 45 MVA
Proposed 46 kV Nameplate Capacity: 60 MVA

EastPark 138 kV Transmission Line – This project will construct approximately 3 miles of 138 kV line to connect the existing Chadwick – Kentucky Electric Steel 138 kV line to the proposed Moore Hollow 138 kV substation located in the EastPark Industrial Center. The project will serve as a transmission service delivery point to industrial customers at the EastPark Industrial Center. The current projected in-service date for the project is December 2020.

EastPark 138 kV transmission line

Proposed Summer Emergency Conductor Capacity: 413 MVA

Boyd County Area Improvements - This project will construct approximately 8 miles of 138 kV line to connect the proposed Moore Hollow 138 kV substation located in the EastPark Industrial Center to the proposed Ramey substation off the existing Bellefonte – Grangston 138 kV circuit. The project will serve as the second transmission source to industrial customers at the EastPark Industrial Center.

[REDACTED]

[REDACTED]

Chadwick Station Improvements – This project will install a second 138/69 kV transformer at the existing Chadwick station. The project will address thermal and voltage violations identified on the South Neal area 69 kV network. The current projected in-service date for the project is April 2020.

Chadwick Transformer #2
Proposed Nameplate Capacity: 200 MVA

[REDACTED]

[REDACTED]



