

AYANTRA

Connecting the Physical World to the Internet

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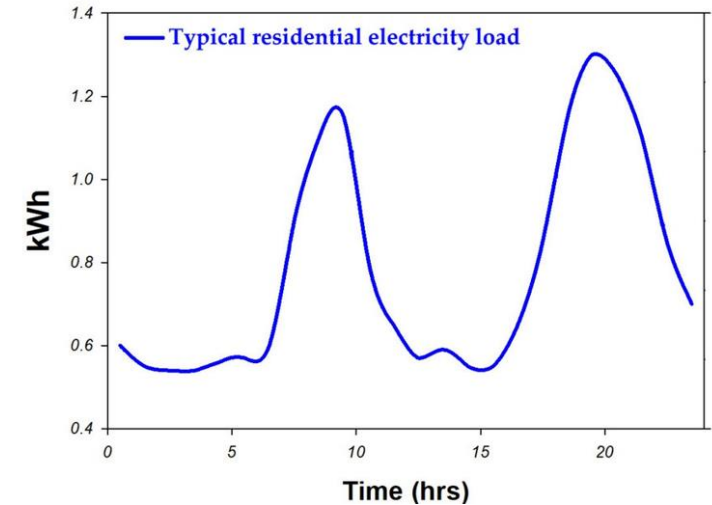
Power companies are facing increasing demand

Demand for electricity is expanding, resulting in more peaks and higher peaks.

Peaks are problematic for the power companies, because it is expensive to add enough additional capacity to meet the demand.

Industrial customers can implement Peak Shaving to reduce their costs.

However, traditional peak shaving programs are not enough to meet the demands of the future.



Demand / Response programs could be the answer.



Elements of a Demand Response Program

Utility



The power company offers a Demand / Response Program

Customer

Customers that have an alternative power source may elect to enroll in the Demand / Response Program. Options include:



Solar Power System



Battery Backup Storage Bank



Onsite Standby Generator

95%+ idle



How Demand Response works...



When the power company anticipates high demand, it sends a message to the Ayantra servers to specify which customers should be temporarily removed from the grid.



Ayantra Servers

The Ayantra servers then send a message to each Ayantra Demand Response Module with instructions to use backup power.

Ayantra Demand Response Module



Backup power is turned ON and the customer is temporarily taken off the grid. Utility Power will be restored in less than four hours and the generator will be turned OFF.





Operational Details:

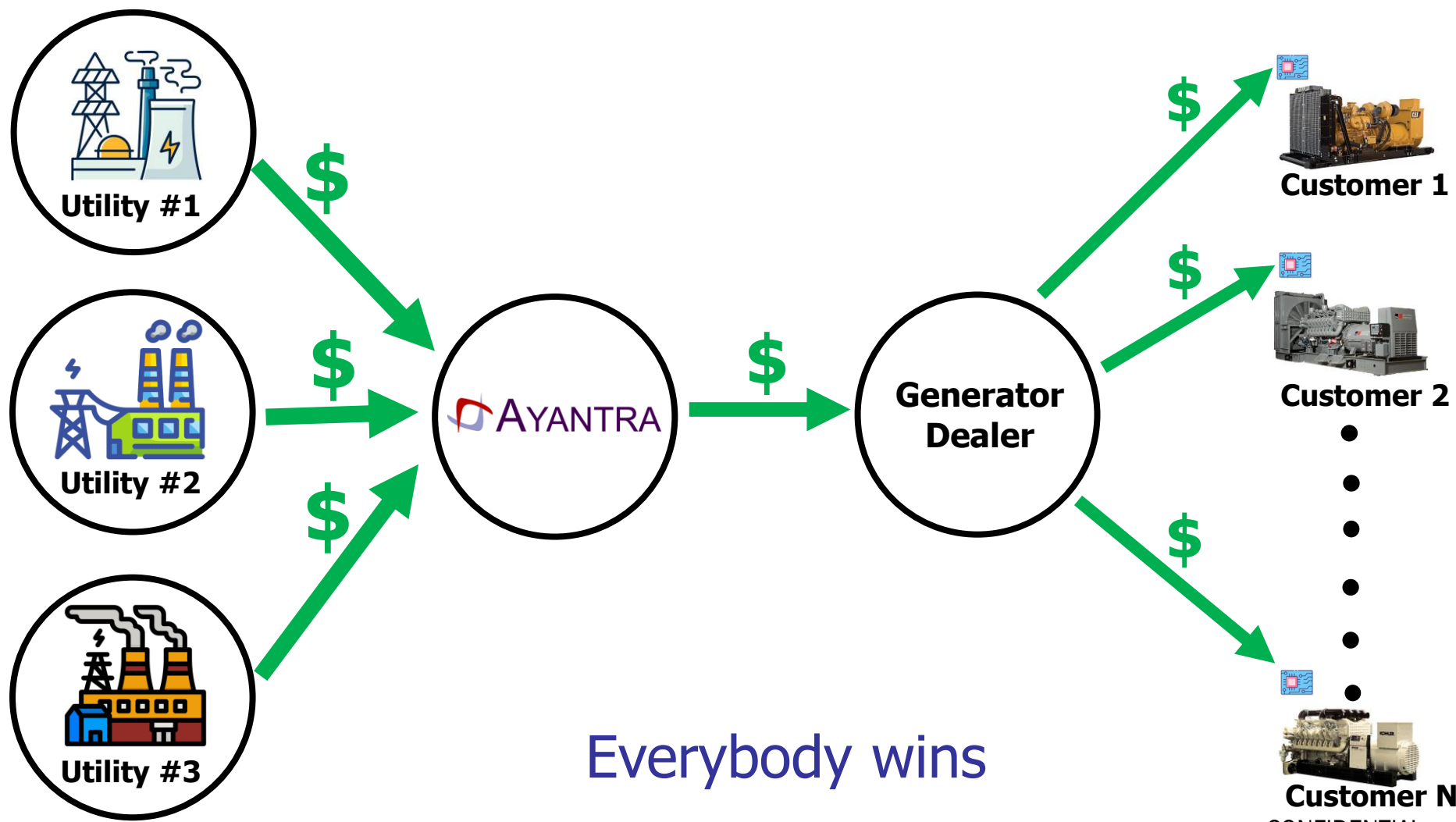
- An email alert will be sent prior to each activation event.
- Each event will be limited to four hours or less.
- The power companies anticipate no more than twenty-four (24) events per year (historically, less than five events per year).

Incentives:

- Participants will receive compensation merely for joining the program, even if they are never required to reduce their demand from the grid.
- Participants will receive additional compensation for reductions in electrical consumption.



Revenue flow



Everybody wins

Ayantra

For more info...



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