



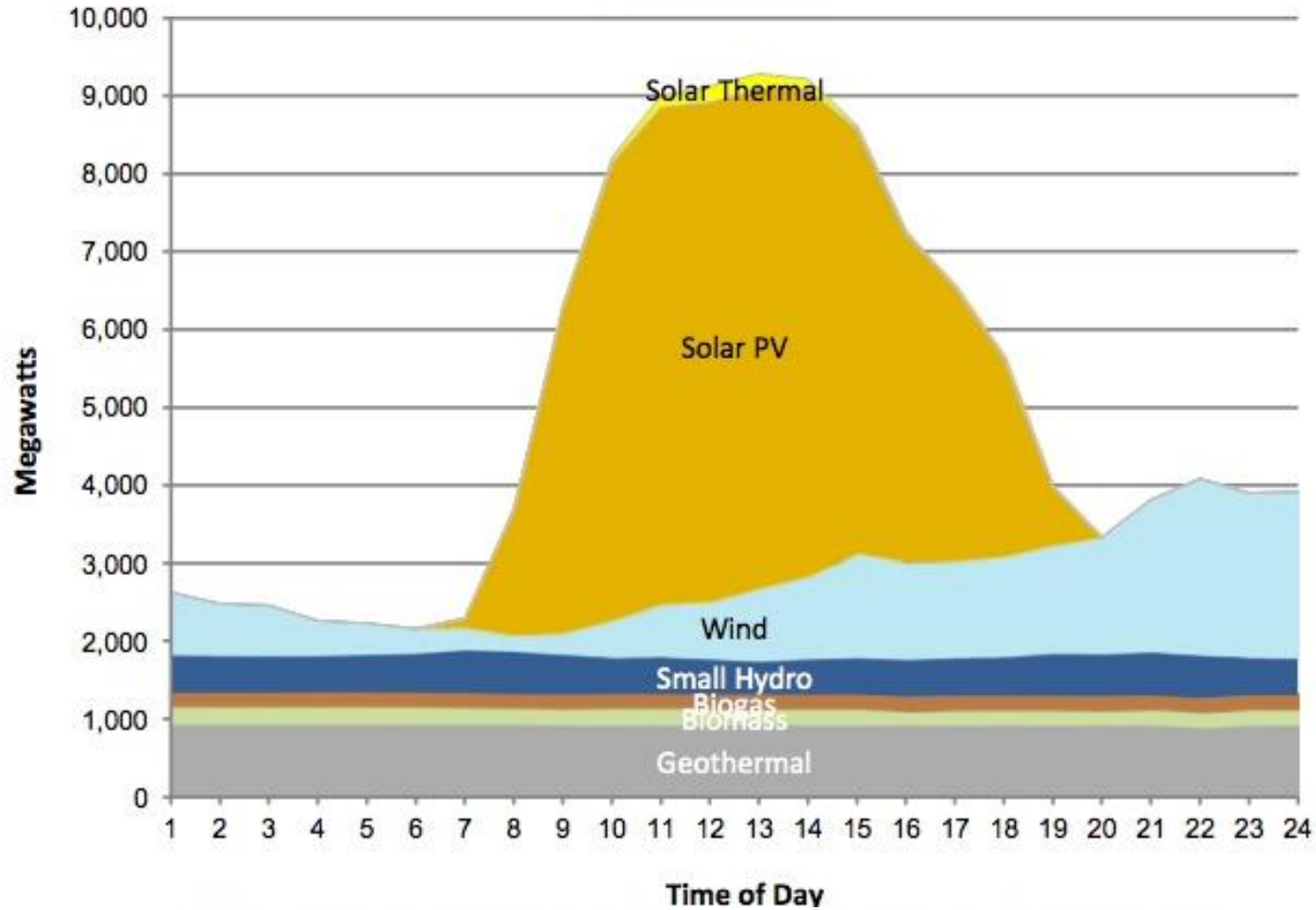
Hometown BioEnergy

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Director, Plant Operations

Avant Energy

Renewable Generation Example



*Data provided by CAISO 4/6/17

Description of Hometown BioEnergy

- Anaerobic Digestion Facility
 - Agricultural and Food Processing Streams
- 8 MW Electric Generation
- 20 Million Gallons Effluent Storage

Overview



Key to Facility Features

- | | | |
|----------------------------|-------------------------|-------------------------------------|
| 1. Admin Building | 10. Make-Up Water Tank | 19. Stormwater Infiltration Pond |
| 2. Process Building | 11. Genset Blowers | 20. Electrical Enclosures |
| 3. Liquid Biomass Pre-Tank | 12. Flare | 21. Electrical Transformer |
| 4. Digester No. 1 | 13. Flare Blowers | 22. Lagoon Valve Shed |
| 5. Digester No. 2 | 14. Fire Pump Enclosure | 23. By-Product Storage Lagoon No. 1 |
| 6. Gas Holder No. 1 | 15. Fire Water Tank | 24. By-Product Storage Lagoon No. 2 |
| 7. Gas Holder No. 2 | 16. Dump Coolers | |
| 8. Gas Holder No. 3 | 17. Hot Water Tank | |
| 9. Gas Cleaners | 18. Biofilter | |

Hometown BioEnergy



Receiving Hall



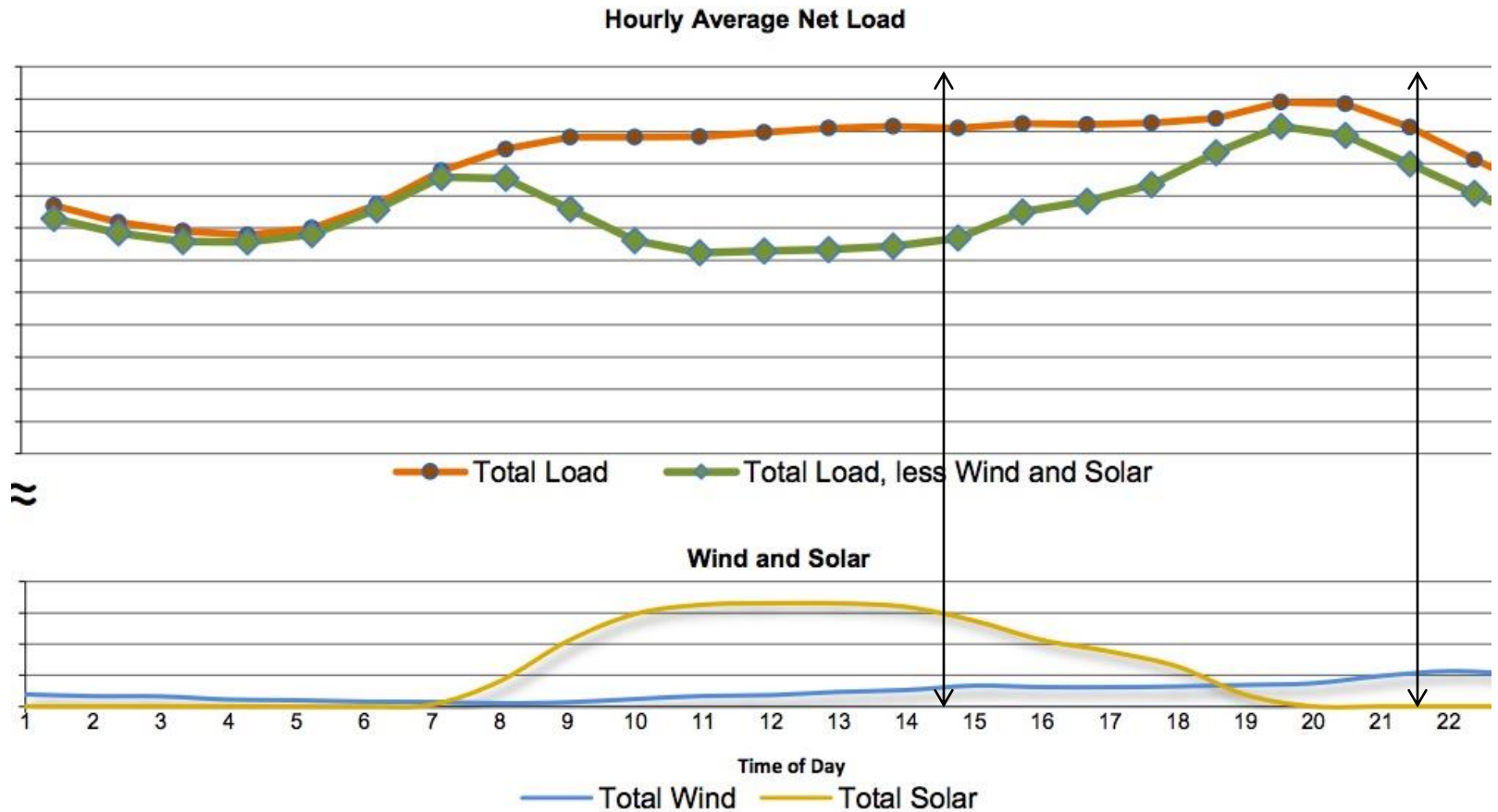
Automated Monorail Crane



Generators

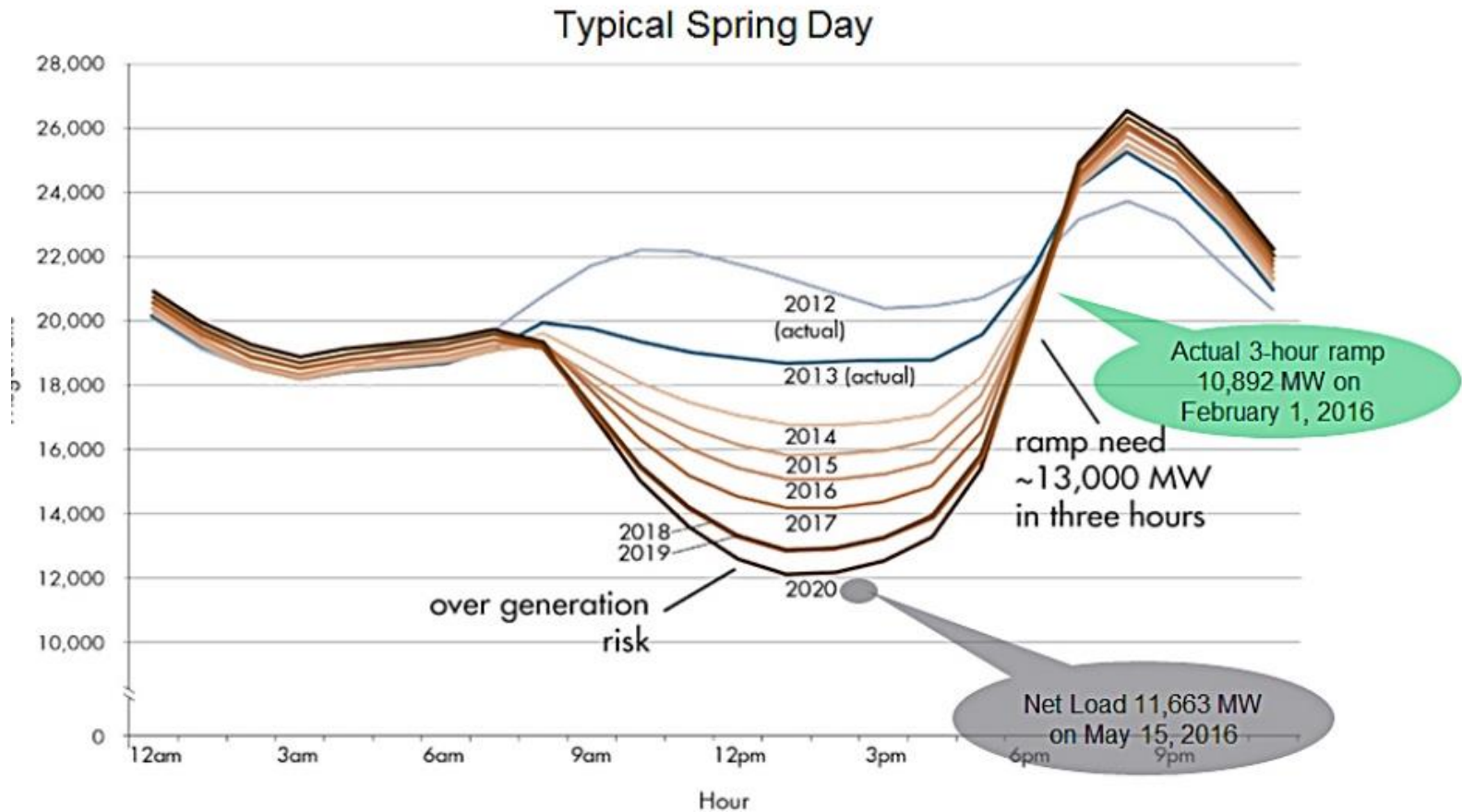


Load vs. Renewable Generation



*Data provided by CAISO 4/6/17

Duck Curve



*Data provided by CAISO

HTBE Efficiency

- Produces On-Peak Electricity
 - Gas Storage Needed
- Recovers Heat from Generation
 - To Heat Process and Building
- Connected at Distribution Level
- Digestate used as soil amendments for local farmers



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