

Weekly

Annual

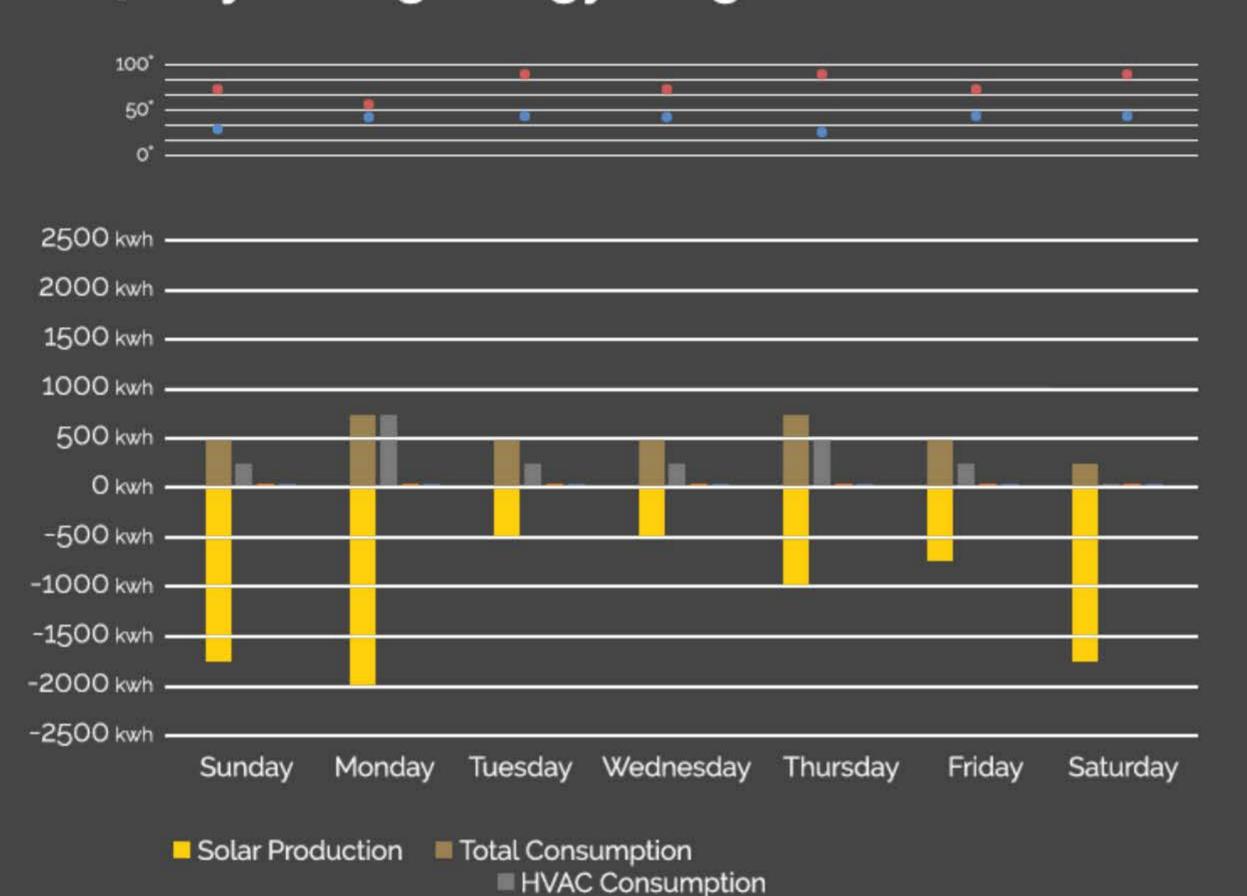
Solar Production

HVAC

Lights & Plug Loads

Carbon Emissions

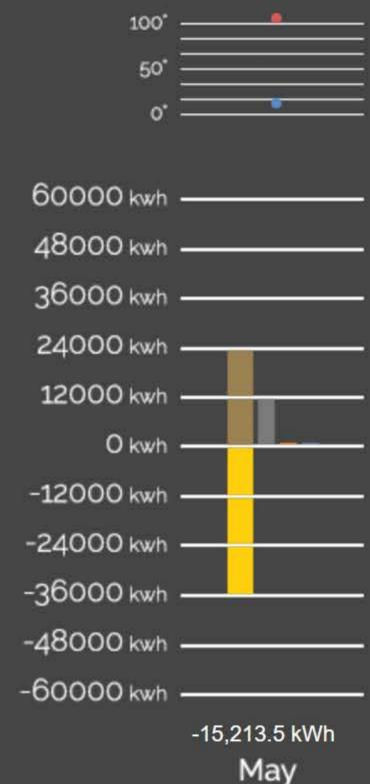
7 Day Rolling Energy Usage and Generation



Lights Consumption

Plug Load Consumption

Month to Date Total



7 Day Rolling Net Energy Usage



According to the US Department of Energy, the state of Illinois receives a yearly average of 4 to 5 peak sun-hours per day. Those are the best hours for generating solar power. In other words, you can expect to get from 4 to 5 kilowatt hours (kwh) of electricity each day for every kilowatt (kw) of solar power capacity installed.





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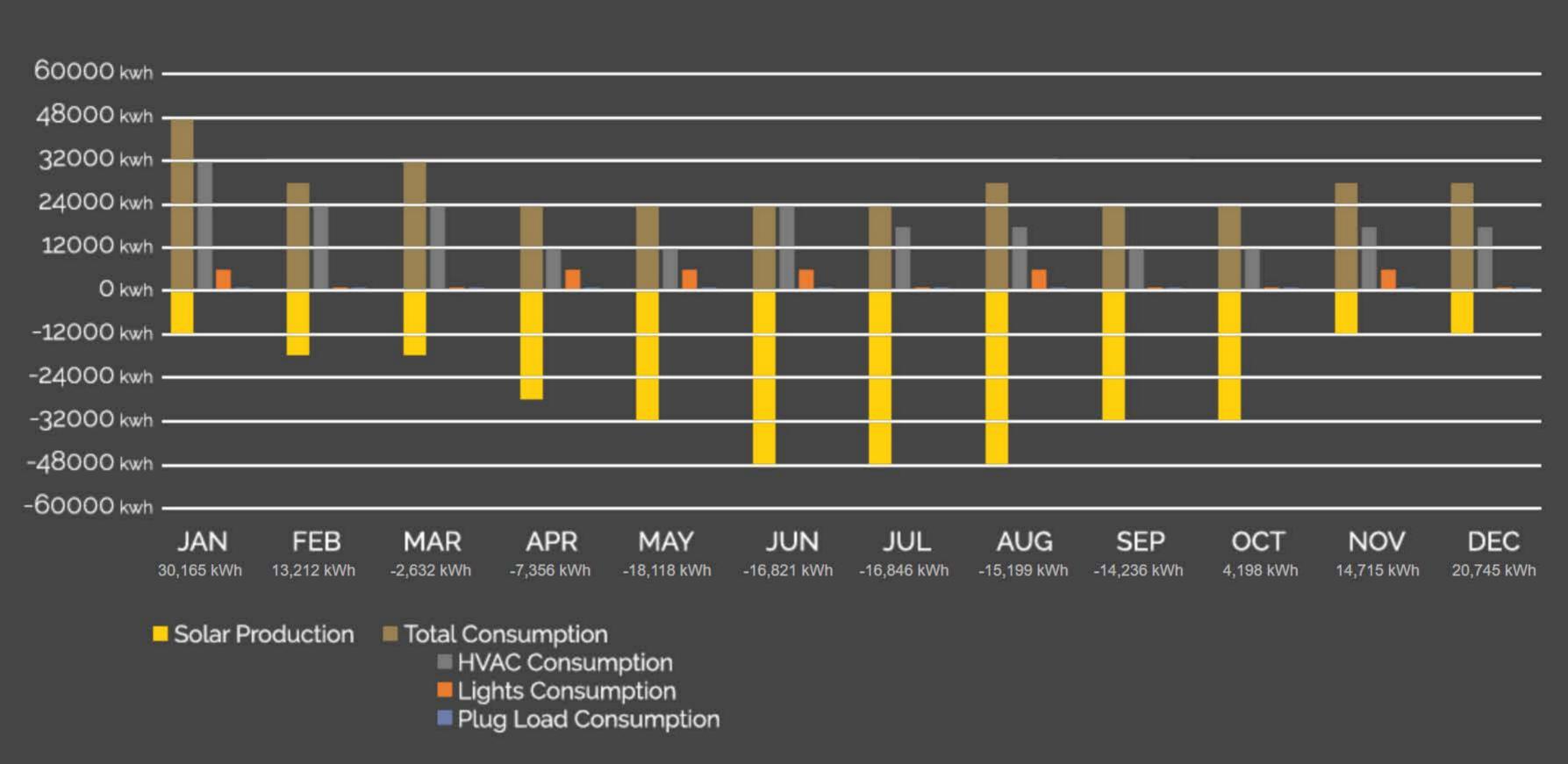
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Annual Energy Usage and Generation



Year to Date Net Usage



This building is 44% more efficient than a conventionally built, code compliant activity center. To learn how we built this facility, see the building construction information near the gym.





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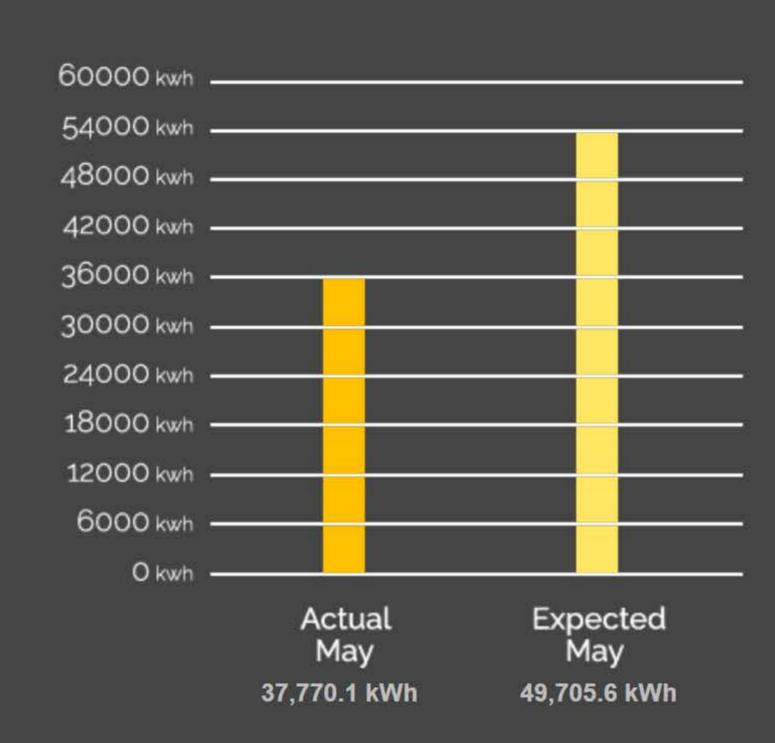
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Solar Panel Generation



Actual vs Predicted Solar Generation



As of March 2019, net electricity generation in Illinois by source was 7% natural gas, 30% coal-fired, 53% nuclear and 10% renewables.

Illinois ranks second in the Midwest for installed renewable power capacity and fifth in the nation for installed wind power capacity. Installed renewable energy capacity includes: 3,667 megawatts (mW) of wind power; 53 mW from solar photovoltaics; 40 mW from hydropower. (Source: IEC – Illinois Environmental Council)





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Solar Production

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Lights & Plug Loads

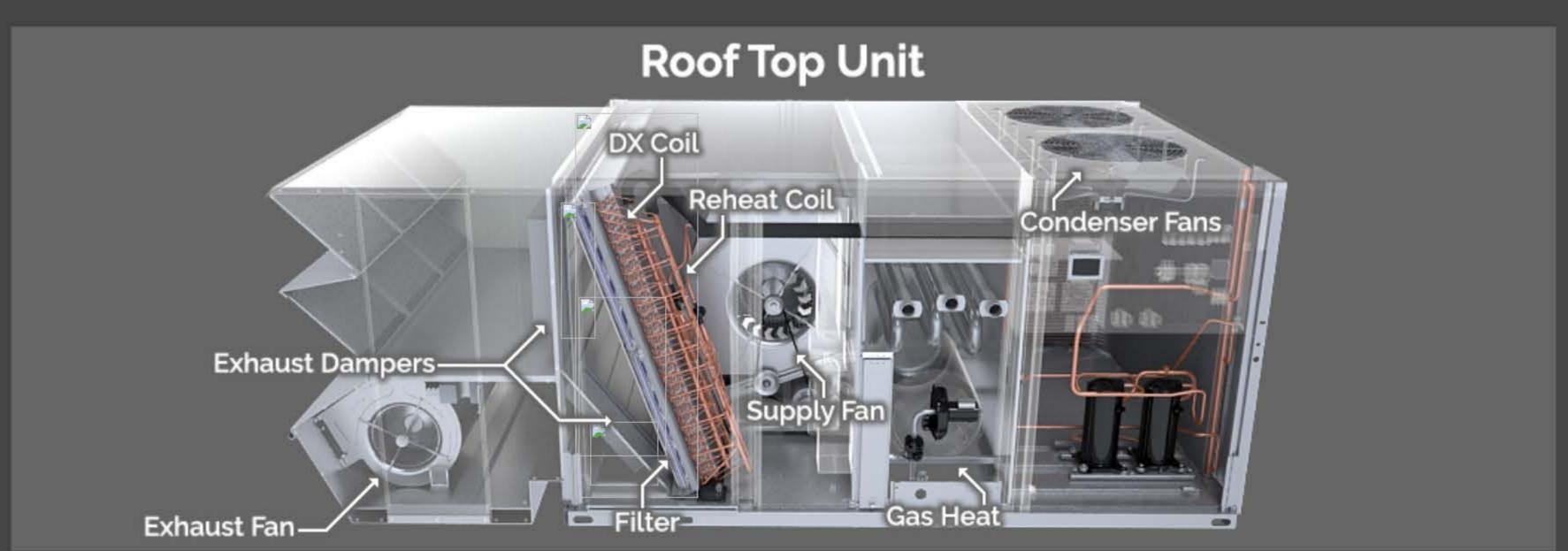
Carbon Emissions

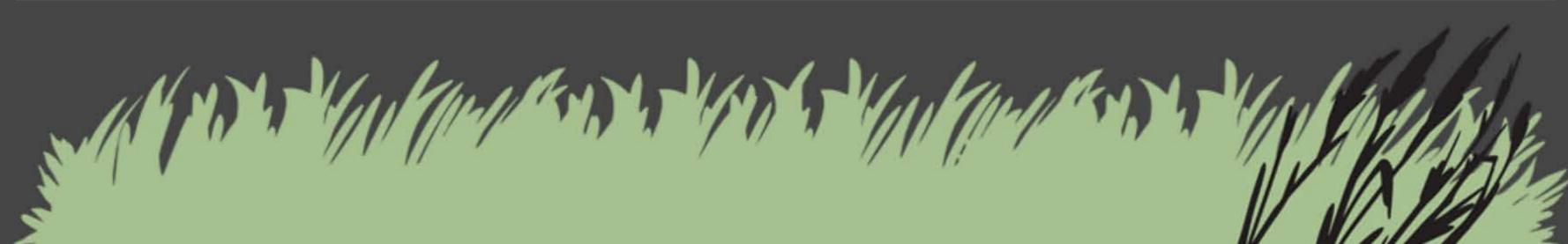
Heating Ventilation & Air Conditioning (HVAC) Energy Consumption



HVAC Actual vs Predicted Energy Usage









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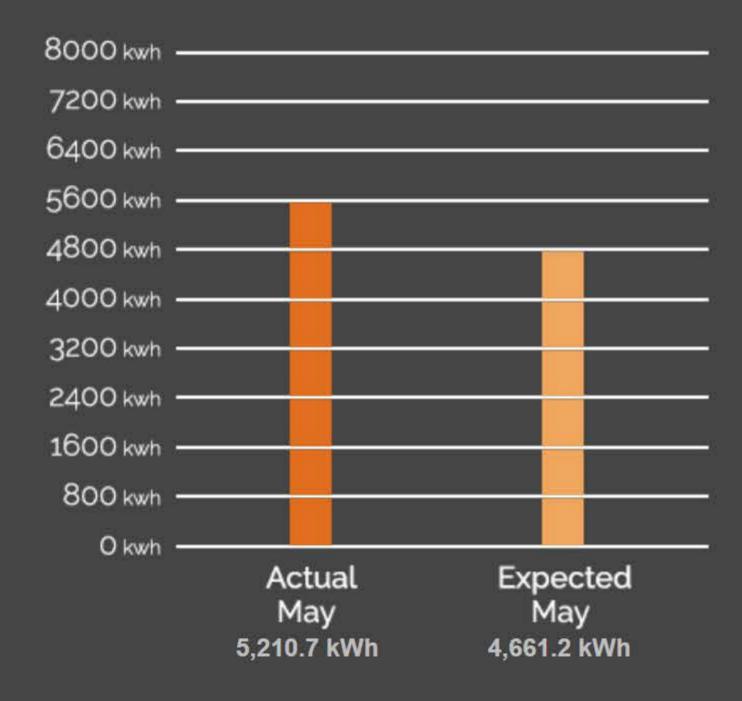
Solar Production

HVAC

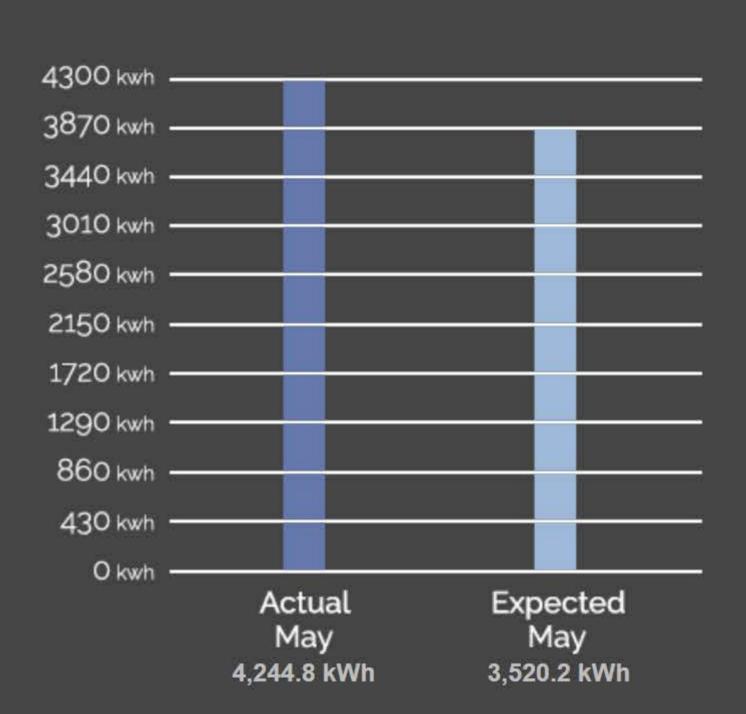
Lights & Plug Loads

Carbon Emissions

Lights Consumption



Plug Loads Consumption



Actual vs Predicted Energy Usage



Lights



Plug Loads

The lighting load for TPAC is almost 50% more efficient than a conventional code compliant building. This energy savings is achieved through the use of LED lights along with daylight harvesting - the utilization of natural sunlight instead of electric fixtures during the day.

Plug loads are the energy used by treadmills, computers, monitors - anything that is plugged into the wall. The metrics for this category are highly affected by how people use the building. For instance, turning off equipment can reduce the plug load.





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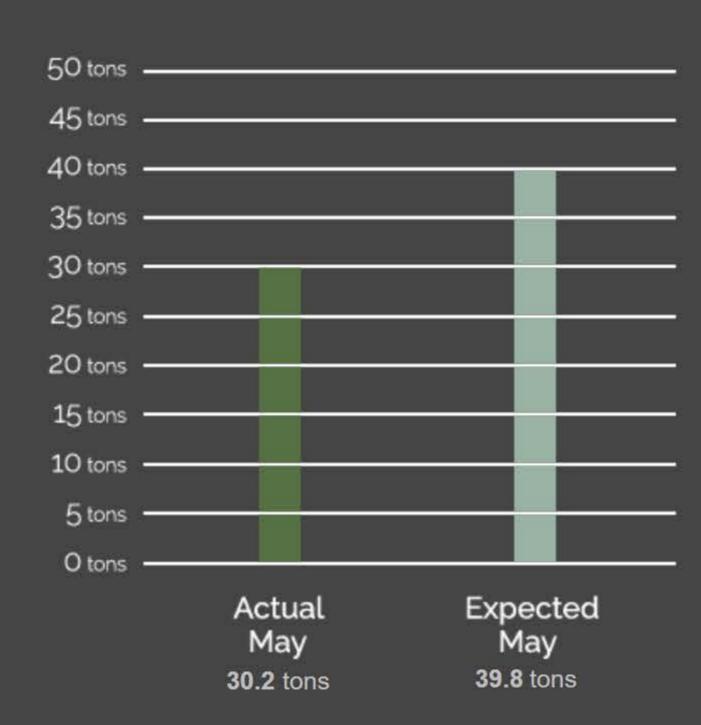
Solar Production

HVAC

Lights & Plug Loads

Carbon Emissions

Monthly Avoided Carbon Emissions



Monthly Actual vs Predicted Avoided Carbon Emissions



73

Cars Removed From the Road



Lifetime Avoided Carbon Emissions

Tree Seedlings Grown for 10 Years



5,717

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