

HV PADMOUNT APPLICATIONS



Partner Technologies designs and manufactures HV padmount transformers for use in a High Voltage Padmount Transformer Station (HVPT Station) in standard sizes up to 20MVA at 138kV suited for a number of applications.

1) Substation Replacement

Many utilities in North America are facing the inevitable task of replacing old wood pole substations. The solution is very difficult for utilities since most are under pressure to reduce capital spending all the while trying to maintain a high standard of reliability. The HVPT Station can save considerable costs and increase system reliability.



2) Direct Customer Service

The HVPT Station can be used to direct connect a customer to nearby sub-transmission lines up to 138kV. A low cost effective solution versus adding a new feeder back at the nearest substation.



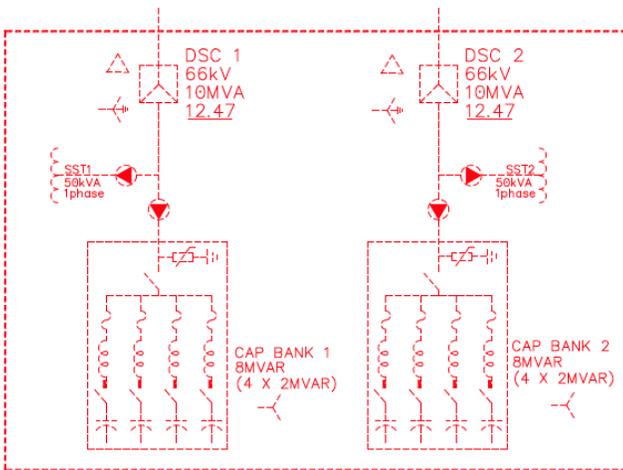
3) Existing Station Support

Load growth can be difficult to predict. It can also occur faster than the most accurate forecasting methods. Traditional substation design can take upwards of 2 years to implement a solution. The HVPT Station with its HV padmount transformer can be deployed quickly to support growth as it occurs. The solution is modular by nature whereby you only add the amount of MVA required when it is needed.



4) Power Factor Correction

The HV padmount can be deployed along with metal clad capacitors to provide voltage support on sagging system voltages up to 145kV. An effective cost alternative to building a new transmission line into the area.



5) Urban Developments

No one wants a substation in their backyard. Traditional designs have live exposed structures surrounded with high barbed wire fences to keep the public safe. Unfortunately this takes a drastic toll on the aesthetics of a new urban development. People are paying a lot of money for pristine lots and want to enjoy the natural beauty of their neighbourhood. The HVPT Station solution will always win the vote at town hall meetings.



Other Key Benefits

- small footprint
- low noise applications
- environmentally friendly fluids available
- modular convenience
- low profile, compact
- low maintenance
- safe to public