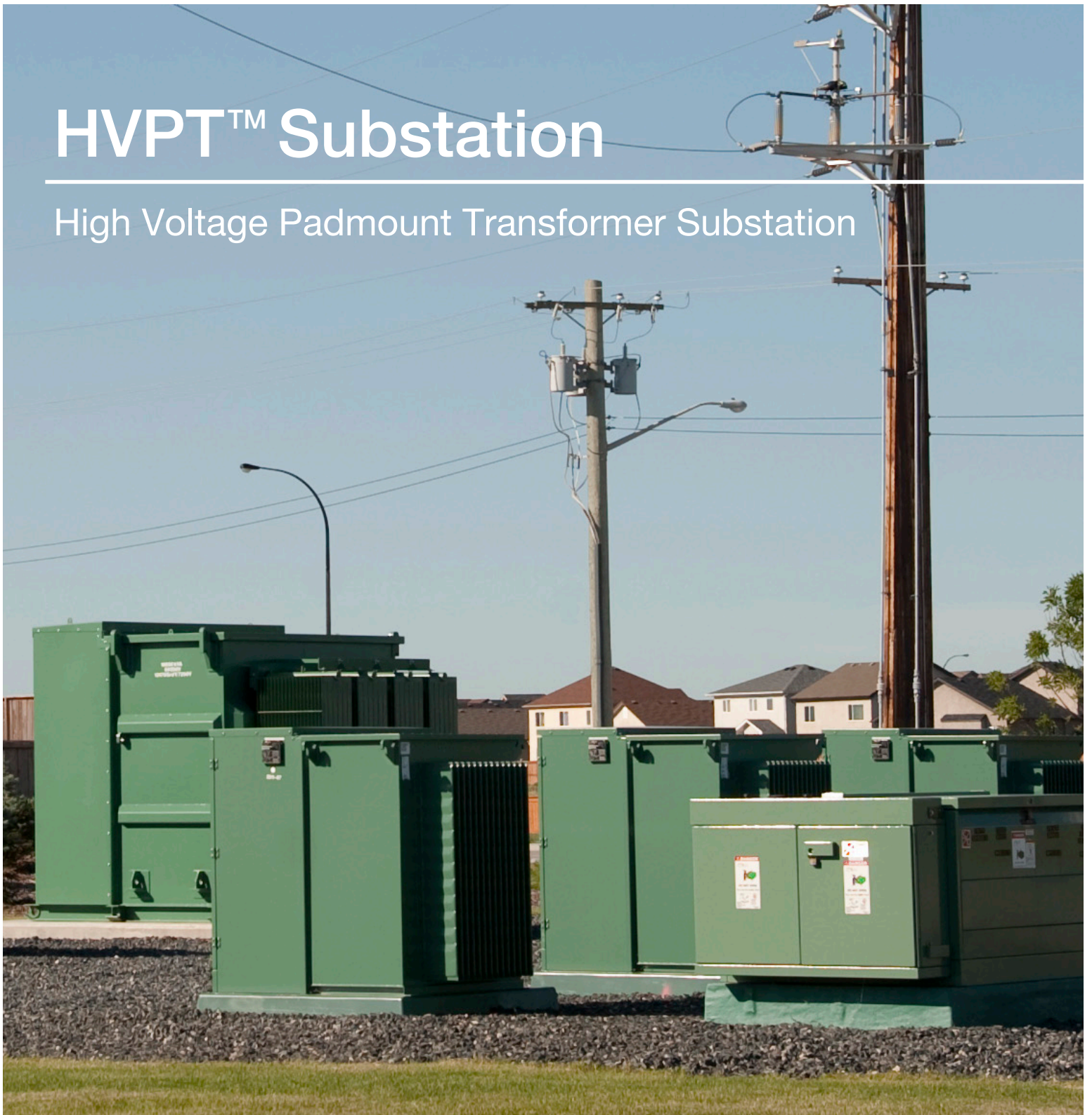


HVPT™ Substation

High Voltage Padmount Transformer Substation



A viable alternative to a traditional substation, our modular High Voltage Padmount Transformer (HVPT™) substation is capable of accepting utility connections from 44kV to 138kV for loads up to 20MVA. With our ability to reduce a traditional substation's footprint by up to 75 per cent and eliminate the need for external overhead conductors and fencing, our transformer is ideal for a wide range of applications.

Our Innovative Alternative

The HVPT™ substation provides you with a unique option for new high voltage services and service upgrades. Our stations perform in either a modular or individual setting, which limits stranded assets and offers a reliable, cost-effective power supply for residential, commercial, and industrial use.

Since 2003, over 110 HVPT™ substations have been installed across Manitoba.



| Capacity Range | Primary Voltage | Secondary Voltage |
|-------------------|-----------------|-------------------|
| 1.5 MVA to 20 MVA | Up to 138 kV | 5 kV to 34.5 kV |

Benefits of an HVPT™ Substation:

- 8-12 months from inception to operation, compared to 24 months for a traditional substation;
- Low yearly maintenance requirements;
- Up to 75% smaller than a traditional substation;
- Dead-front connections on HV and LV bushings for increased safety to staff;
- Unexposed bushings offer protection from wildlife;
- Safe, tamper-resistant enclosure to ANSI C57.12.28 standards with grounding designs that exceed IEEE 80 requirements;
- Customizable protection, control and monitoring requirements
- Significant lifecycle cost reductions and capital cost savings of up to 50% when compared to a conventional substation.

For more information, visit mhi.ca.

Available in accessible formats upon request.

