

A DC Current Controller for Continuously Variable Series Reactor (CVSR)

Disclosure Number

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Technology Summary

This disclosure presents the invention of a DC current controller (DCC), specifically developed for controlling the reactance of the continuously variable series reactor (CVSR). The CVSR is a device designed to be series connected in an AC electric power line to regulate the power flow through varying the reactance. Intended for utility transmission grid applications, the CVSR will be installed outdoors in a substation. The invented DCC is suitable for outdoor environment as part of the CVSR, can tolerate different normal and abnormal AC grid conditions, and require low maintenance.

Inventor

OZPINECI, BURAK
Energy & Transportation Science Division

Licensing Contact

COCHRAN III, EUGENE R
UT-Battelle, LLC
Oak Ridge National Laboratory
6196
1 Bethel Valley Road
Oak Ridge, TN 37831

Office Phone: (865) 576-2830

E-Mail: COCHRANER@ORNL.GOV