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Docket Number:	19-SB-100
Project Title:	SB 100 Joint Agency Report: Charting a path to a 100% Clean Energy Future
TN #:	230514
Document Title:	Jose Lopez-Gallego Versallis Enagas TallGrass Comments - Solutions to SB100 issues about Intermittency, storage, resiliency & GHG reduction by injection of RH2 into the NG pipeline
Description:	N/A
Filer:	System
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Submitter Role:	Other Interested Person
Submission Date:	11/5/2019 7:45:06 PM
Docketed Date:	11/5/2019

Comment Received From: Jose Lopez-Gallego / Versallis / Enagas / TallGrass
Submitted On: 11/5/2019
Docket Number: 19-SB-100

Solutions to SB100 issues about Intermittency, storage, resiliency & GHG reduction by injection of RH2 into the NG pipeline

To express our conviction about the interest of injecting zero carbon hydrogen into the pipeline. With the development of right policies and very much currently existing technologies, it can be an extraordinary help to achieve the goals of SB100 for 100% renewable & zero carbon electricity.

We are all quite aware of the need for storing energy, which is growing very strongly with the increasing presence of renewable energies.

This need for storing is related not only to the intermittent nature of many of those renewable energy sources,

but is also a tool to fight the loss of energy to curtailment,

to help ease the complexity of expanding distribution of energy in order to reach growing communities

and to increase the resiliency of the energy production and distribution system as a whole.

For all the above and more, decarbonizing the pipeline by replacing an increasing % of fossil gas with either hydrogen, methanized syngas or biogas is a required step that, in combination with other technologies and infrastructures, must help reach the goals of SB100.

The pipeline can be seen as a huge storage and transportation system, where even an initially small % of hydrogen can represent a great leap towards the SB100 goals

Also, the capillarity and reach of the pipeline makes it ideal to help deliver these goals

Looking into the future, the pipeline can progressively turn to be 100% hydrogen.