



# PURIWG: Consistent “Figures of Merit”

A finite set of results reported in consistent units

- To track progress of individual projects on a consistent basis
- To enable comparing projects in a transparent manner



# Potential PURIWG Figures of Merit

## Key Separations and Purification Targets

Target	Units
Flux Rate	scf H <sub>2</sub> /ft <sup>2</sup> (at 20 psi hydrogen partial pressure differential with a minimum permeate side total pressure of 15 psig, preferably >50 psig, at 400 C) - scf/ft <sup>2</sup> -delta H <sub>2</sub> psi or scf/ft <sup>2</sup> -delta H <sub>2</sub> psi <sup>1/2</sup> ? - normal liters H <sub>2</sub> /m <sup>2</sup> -delta H <sub>2</sub> psi or normal liters H <sub>2</sub> /m <sup>2</sup> -delta H <sub>2</sub> psi <sup>1/2</sup>
Cost	module cost: \$/ft <sup>2</sup> of membrane (or \$/m <sup>2</sup> of membrane?) - Membrane cost: \$/ft <sup>2</sup> or \$/m <sup>2</sup> ?
Operability: Total Delta P	- psi
Operability: Temperature Range	- °C



<b>Target</b>	<b>Units</b>
Hydrogen Recovery	%
Hydrogen Quality	Purity vs. full list of ISO/ASE guidelines
Durability	hrs
Others? - Sulfur tolerance?	