

Design Considerations – Power to Gas Option

The HySTAT H₂ containerised gas production system can accommodate a range of production and storage needs. The following questionnaire will begin the design process to utilise the surplus electrical energy available to create H₂ and oxygen gas or a new power supply system.

Current System Evaluation			
1. What is your current power generation system?		4. What excess power is available?	
Solar PV	<input type="checkbox"/>	Average:	kW
Wind Turbine	<input type="checkbox"/>	Maximum:	kW
Hydro	<input type="checkbox"/>	5. Over what time period is this excess power available?	
Thermal	<input type="checkbox"/>	Average:	hours
Other (please specify):	<input type="checkbox"/>	Maximum:	hours
2. What is the average and maximum power output of the system?		6. Is a standard water supply available on site?	
Average output:	kW	Yes	<input type="checkbox"/>
Maximum output:	kW	No	<input type="checkbox"/>
3. What is the current power draw on the system?			
Average power draw:	kW		
Maximum power draw:	kW		
Project Background			
1. What is your location?		2. Is this a new project?	
Metropolitan	<input type="checkbox"/>	Yes	<input type="checkbox"/>
Country/Regional	<input type="checkbox"/>	No	<input type="checkbox"/>
Remote	<input type="checkbox"/>		

3. Are you considering only production of hydrogen and oxygen for commercial use?		6. If Yes, what amount of power do you need to produce?	
Yes	<input type="checkbox"/>	Average:	kW
No	<input type="checkbox"/>	Maximum:	kW
4. If Yes, what volumes do you need to produce to be commercially viable?		7. Do you require a containerised production system?	
Expected production:	Nm ³	Yes	<input type="checkbox"/>
5. Are you considering hydrogen production to create base load power?		No	<input type="checkbox"/>
Yes	<input type="checkbox"/>	8. If No, can a production facility be constructed inside your current building?	
No	<input type="checkbox"/>	Yes	<input type="checkbox"/>
		No	<input type="checkbox"/>
9. Please nominate any other factor you consider to be important in our design assessment of your H₂ production requirement.			

These questions enable a preliminary design to be completed to allow for an initial cost assessment for an H₂ production facility meeting your nominated requirements. Depending on the information provided, a more detailed assessment may be required before a formal quotation is provided.

For an electronic copy of this form, please email info@alberfield.com.au and on provision of a name, email address and phone number, a copy will be emailed to you.