

**Changes to Argus Hydrogen and Future Fuels effective 13 September 2022**

Argus is adding the following assessments to Argus Hydrogen and Future Fuels effective 13 September 2022. These changes apply to the dhydrogen.csv file in the Dhydrogen folder of ftp.argusmedia.com  
 Historical data is available upon request.

PA-Code	Time stamp	Price type	Continuous forward	Description	Differential basis	Start date	Unit	Category	Frequency
PA0037608	0	8	0	Hydrogen no-C diurnal+PEM China CNY/kg	-	05-Jan-2021	CNY/kg	->Hydrogen->Calculated costs->Asia-Pacific->China->Incl capex	Weekly
PA0037609	0	8	0	Hydrogen no-C diurnal+PEM China USD/kg	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Asia-Pacific->China->Incl capex	Weekly
PA0037610	0	8	0	Hydrogen no-C diurnal+PEM China excl capex CNY/kg	-	05-Jan-2021	CNY/kg	->Hydrogen->Calculated costs->Asia-Pacific->China->Excl capex	Weekly
PA0037611	0	8	0	Hydrogen no-C diurnal+PEM China excl capex USD/kg	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Asia-Pacific->China->Excl capex	Weekly
PA0037612	0	8	0	Hydrogen no-C diurnal+PEM India INR/kg	-	05-Jan-2021	INR/kg	->Hydrogen->Calculated costs->Asia-Pacific->India->Incl capex	Weekly
PA0037613	0	8	0	Hydrogen no-C diurnal+PEM India USD/kg	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Asia-Pacific->India->Incl capex	Weekly
PA0037614	0	8	0	Hydrogen no-C diurnal+PEM India excl capex INR/kg	-	05-Jan-2021	INR/kg	->Hydrogen->Calculated costs->Asia-Pacific->India->Excl capex	Weekly
PA0037615	0	8	0	Hydrogen no-C diurnal+PEM India excl capex USD/kg	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Asia-Pacific->India->Excl capex	Weekly
PA0037616	0	8	0	Hydrogen no-C diurnal+PEM South Africa	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Africa->South Africa->Incl capex	Weekly
PA0037617	0	8	0	Hydrogen no-C diurnal+PEM South Africa excl capex	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Africa->South Africa->Excl capex	Weekly
PA0037618	0	8	0	Hydrogen no-C diurnal+PEM Saudi Arabia	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Mideast Gulf->Saudi Arabia->Incl capex	Weekly
PA0037619	0	8	0	Hydrogen no-C diurnal+PEM Saudi Arabia excl capex	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Mideast Gulf->Saudi Arabia->Excl capex	Weekly
PA0037620	0	8	0	Hydrogen no-C diurnal+PEM Qatar	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Mideast Gulf->Qatar->Incl capex	Weekly
PA0037621	0	8	0	Hydrogen no-C diurnal+PEM Qatar excl capex	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Mideast Gulf->Qatar->Excl capex	Weekly
PA0037622	0	8	0	Hydrogen no-C diurnal+PEM UAE	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Mideast Gulf->UAE->Incl capex	Weekly
PA0037623	0	8	0	Hydrogen no-C diurnal+PEM UAE excl capex	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Mideast Gulf->UAE->Excl capex	Weekly
PA0037643	0	8	0	Hydrogen no-C diurnal+PEM Brazil	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Americas->Brazil->Incl capex	Weekly
PA0037644	0	8	0	Hydrogen no-C diurnal+PEM Brazil excl capex	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Americas->Brazil->Excl capex	Weekly
PA0037645	0	8	0	Hydrogen decarbonisation spread no-C to BAT+ northwest Europe	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Europe->Regional averages->Incl capex	Weekly
PA0037646	0	8	0	Hydrogen decarbonisation spread no-C to BAT+ North America	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Americas->Regional averages->Incl capex	Weekly
PA0037647	0	8	0	Hydrogen decarbonisation spread no-C to BAT+ northeast Asia	-	25-May-2021	USD/kg	->Hydrogen->Calculated costs->Asia-Pacific->Regional averages->Incl capex	Weekly
PA0037648	0	8	0	Hydrogen decarbonisation spread no-C to BAT+ net exporter	-	05-Oct-2021	USD/kg	->Hydrogen->Calculated costs->Net exporter->Incl capex	Weekly
PA0037649	0	8	0	Hydrogen decarbonisation spread no-C to BAT+ northwest Europe excl capex	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Europe->Regional averages->Excl capex	Weekly

PA-Code	Time stamp	Price type	Continuous forward	Description	Differential basis	Start date	Unit	Category	Frequency
PA0037650	0	8	0	Hydrogen decarbonisation spread no-C to BAT+ North America excl capex	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Americas->Regional averages->Excl capex	Weekly
PA0037651	0	8	0	Hydrogen decarbonisation spread no-C to BAT+ northeast Asia excl capex	-	25-May-2021	USD/kg	->Hydrogen->Calculated costs->Asia-Pacific->Regional averages->Excl capex	Weekly
PA0037652	0	8	0	Hydrogen decarbonisation spread no-C to BAT+ net exporter excl capex	-	05-Oct-2021	USD/kg	->Hydrogen->Calculated costs->Net exporter->Excl capex	Weekly
PA0037653	0	8	0	Hydrogen decarbonisation spread BAT+ to baseline northwest Europe	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Europe->Regional averages->Incl capex	Weekly
PA0037654	0	8	0	Hydrogen decarbonisation spread BAT+ to baseline North America	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Americas->Regional averages->Incl capex	Weekly
PA0037655	0	8	0	Hydrogen decarbonisation spread BAT+ to baseline northeast Asia	-	25-May-2021	USD/kg	->Hydrogen->Calculated costs->Asia-Pacific->Regional averages->Incl capex	Weekly
PA0037656	0	8	0	Hydrogen decarbonisation spread BAT+ to baseline net exporter	-	05-Oct-2021	USD/kg	->Hydrogen->Calculated costs->Net exporter->Incl capex	Weekly
PA0037657	0	8	0	Hydrogen decarbonisation spread BAT+ to baseline northwest Europe excl capex	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Europe->Regional averages->Excl capex	Weekly
PA0037658	0	8	0	Hydrogen decarbonisation spread BAT+ to baseline North America excl capex	-	05-Jan-2021	USD/kg	->Hydrogen->Calculated costs->Americas->Regional averages->Excl capex	Weekly
PA0037659	0	8	0	Hydrogen decarbonisation spread BAT+ to baseline northeast Asia excl capex	-	25-May-2021	USD/kg	->Hydrogen->Calculated costs->Asia-Pacific->Regional averages->Excl capex	Weekly
PA0037660	0	8	0	Hydrogen decarbonisation spread BAT+ to baseline net exporter excl capex	-	05-Oct-2021	USD/kg	->Hydrogen->Calculated costs->Net exporter->Excl capex	Weekly
PA0037663	0	8	0	Hydrogen baseline SMR Middle East average	-	25-May-2021	USD/kg	->Hydrogen->Calculated costs->Mideast Gulf->Regional averages->Incl capex	Weekly
PA0037664	0	8	0	Hydrogen BAT+ SMR+CCS Middle East average	-	25-May-2021	USD/kg	->Hydrogen->Calculated costs->Mideast Gulf->Regional averages->Incl capex	Weekly