

ASX Announcement

3 September 2019

CETO Intellectual Property Update

Carnegie Clean Energy Limited (ASX:CCE) (Carnegie or the Company) provides the following update to shareholders with regards to its existing CETO intellectual property (IP) and the plans in respect to its IP.

One of the Company's main assets following the completion of the recapitalisation process will be the IP which has been developed over a decade of research, development and demonstration projects. These activities have created intellectual property which has informed the evolution and development of the CETO technology and comprises patents, trade secrets (codes, methods etc) and know-how. As at 23 August 2019, the Company's patent portfolio comprises of 70 granted patents and 18 patents pending (CETO Patent Portfolio). A table of the CETO Patent Portfolio is contained in the Annexure.

Carnegie utilises Wrays, an independent IP specialist firm, to (amongst other matters) provide assistance in monitoring any actions required in respect to the CETO Patent Portfolio (including renewals and application processes such as exam reports) and to facilitate correspondence and support from intellectual property specialists and governments in various countries in which the patents in respect to the CETO Patent Portfolio are held. Carnegie anticipates that it may incur costs of between approximately \$85,000 to \$110,000 per year in respect to the maintenance of the CETO Patent Portfolio, noting that Carnegie has made provision for the maintenance of the CETO Patent Portfolio in its use of funds detailed in the Prospectus (as part of the "CETO Development" costs).

Following completion of the recapitalisation, Carnegie will continue to periodically review its existing CETO Patent Portfolio to ensure that the Company is afforded appropriate and adequate protection in respect to the CETO technology at a reasonable ongoing maintenance cost. As part of the review process, the Company will consider (amongst other matters) the protections offered by the CETO Patent Portfolio and the jurisdictions which are presently covered.

Shareholders are advised that Carnegie may elect not to continue maintaining or renewing certain patents in the CETO IP Portfolio if it considers that such patent is either no longer applicable to the Company or the costs for maintaining the patent outweighs the benefits.

For more information:

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Annexure

Case List

Case Ref.	Official No.	Title	Case Status	Owner	Country	Registered Date	Next Renewal Date
202864	AP 3001	Buoyant Actuator	Registered	CETO IP Pty Ltd	African Regional Industrial Property Organisation	31-Oct-2014	16-Dec-2019
203878	AR079030B1	Hydraulic Apparatus	Registered	CETO IP Pty Ltd	Argentina	30-Jun-2017	15-Nov-2019
252796	P140101421	Deployment System	Response to Exam Report filed at IPO	CETO IP Pty Ltd	Argentina		
209986	2013203488	Wave Energy Conversion	Registered	CETO IP Pty Ltd	Australia	04-Dec-2014	16-Aug-2020
207210	2010317607	Hydraulic Apparatus	Registered	CETO IP Pty Ltd	Australia	22-Jan-2015	15-Nov-2019
209392	2011291435	Wave Energy Conversion	Registered	CETO IP Pty Ltd	Australia	02-Jun-2016	16-Aug-2020
261267	2014245858	Deployment System	Registered	CETO IP Pty Ltd	Australia	05-Jul-2018	28-Mar-2020
123884	2006282000	Wave Energy Conversion	Registered	CETO IP Pty Ltd	Australia	15-Jul-2013	17-Aug-2020
126800	2007314083	Buoyant Actuator	Registered	CETO IP Pty Ltd	Australia	26-Apr-2013	02-Nov-2019
202782	2008338244	Buoyant Actuator	Registered	CETO IP Pty Ltd	Australia	17-May-2012	17-Dec-2019
126121	2128	Buoyant Actuator	Registered	CETO IP Pty Ltd	Bahamas	14-Dec-2010	17-Dec-2019
205434	2376	Wave Energy Conversion	Registered	CETO IP Pty Ltd	Bahamas	11-Jun-2014	07-Oct-2019
207191	BR112012011400-0	Hydraulic Apparatus	Exam requested	CETO IP Pty Ltd	Brazil		15-Nov-2019
261268	BR112015024756-3	Deployment System	Exam requested	CETO IP Pty Ltd	Brazil		28-Mar-2020
261269	2,908,034	Deployment System	Application filed	CETO IP Pty Ltd	Canada		28-Mar-2020
209394	2,808,322	Wave Energy Conversion	Application allowed	CETO IP Pty Ltd	Canada		16-Aug-2020
123882	2,619,100	Wave Energy Conversion	Registered	CETO IP Pty Ltd	Canada	03-Jun-2014	17-Aug-2020
207192	2,779,287	Hydraulic Apparatus	Registered	CETO IP Pty Ltd	Canada	06-Nov-2018	15-Nov-2019
126802	2,668,486	Buoyant Actuator	Registered	CETO IP Pty Ltd	Canada	21-Apr-2015	02-Nov-2019
209395	54625	Wave Energy Conversion	Registered	CETO IP Pty Ltd	Chile	28-Jun-2017	16-Aug-2021
261270	02894-2015	Deployment System	Application allowed	CETO IP Pty Ltd	Chile		
261271	ZL201480029738.9	Deployment System	Registered	CETO IP Pty Ltd	China	27-Oct-2017	28-Mar-2020
209396	ZL201180049876.x	Wave Energy Conversion	Registered	CETO IP Pty Ltd	China	10-Aug-2016	16-Aug-2020
250990	ZL201310379613.6	Wave Energy Conversion	Registered	CETO IP Pty Ltd	China	28-Dec-2016	17-Aug-2020
126803	ZL200780049172.6	Buoyant Actuator	Registered	CETO IP Pty Ltd	China	20-Aug-2014	02-Nov-2019
202768	ZL200880125578.2	Buoyant Actuator	Registered	CETO IP Pty Ltd	China	03-Sep-2014	17-Dec-2019
123881	ZL 200680038613.8	Wave Energy Conversion	Registered	CETO IP Pty Ltd	China	25-Sep-2013	17-Aug-2020
207193	ZL201080052529.8	Hydraulic Apparatus	Registered	CETO IP Pty Ltd	China	20-Jan-2016	15-Nov-2019
207196	10829375.4	Hydraulic Apparatus	Application allowed	CETO IP Pty Ltd	European Patent Convention		15-Nov-2019
265842	16195844.2	Wave Energy Conversion	Response to Exam Report filed at IPO	CETO IP Pty Ltd	European Patent Convention		16-Aug-2020
274669	2978965B	Deployment System	Registered	CETO IP Pty Ltd	France		28-Mar-2020
274670	2978965B	Deployment System	Registered	CETO IP Pty Ltd	Germany		28-Mar-2020
265087	1220244B	Deployment System	Registered	CETO IP Pty Ltd	Hong Kong	14-Sep-2018	28-Mar-2022
209529	1174963B	Hydraulic Apparatus	Registered	CETO IP Pty Ltd	Hong Kong	17-Mar-2017	15-Nov-2020
209398	2039/DELNP/2013	Wave Energy Conversion	Examination report received	CETO IP Pty Ltd	India		
207197	3693/DELNP/2012	Hydraulic Apparatus	Response to Exam Report filed at IPO	CETO IP Pty Ltd	India		
207198	IDP000048884	Hydraulic Apparatus	Registered	CETO IP Pty Ltd	Indonesia	19-Dec-2017	15-Oct-2019

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209399	IDP000041975	Wave Energy Conversion	Registered	CETO IP Pty Ltd	Indonesia	29-Jun-2016	17-Jul-2020
261273	IDP000056643	Deployment System	Registered	CETO IP Pty Ltd	Indonesia	12-Feb-2019	28-Feb-2020
274671	2978965B	Deployment System	Registered	CETO IP Pty Ltd	Ireland		28-Mar-2020
261274	241913	Deployment System	Application allowed	CETO IP Pty Ltd	Israel		
261275	6491190	Deployment System	Registered	CETO IP Pty Ltd	Japan	08-Mar-2019	08-Mar-2022
209400	5982371	Wave Energy Conversion	Registered	CETO IP Pty Ltd	Japan	05-Aug-2016	05-Aug-2020
207200	5801313	Hydraulic Apparatus	Registered	CETO IP Pty Ltd	Japan	04-Sep-2015	04-Sep-2020
123876	5567269	Wave Energy Conversion	Registered	CETO IP Pty Ltd	Japan	27-Jun-2014	27-Jun-2020
202770	5475681	Buoyant Actuator	Registered	CETO IP Pty Ltd	Japan	14-Feb-2014	14-Feb-2020
126808	5358447	Buoyant Actuator	Registered	CETO IP Pty Ltd	Japan	06-Sep-2013	06-Sep-2020
207201	2012/012	Hydraulic Apparatus	Response to Exam Report filed at IPO	CETO IP Pty Ltd	Madagascar		15-Nov-2019
209401	618	Wave Energy Conversion	Registered	CETO IP Pty Ltd	Madagascar	12-Dec-2014	16-Aug-2020
261276	PI 2015703374	Deployment System	Exam requested	CETO IP Pty Ltd	Malaysia		
252798	MU/P/14/00207	Deployment System	Application filed	CETO IP Pty Ltd	Mauritius		28-Feb-2020
205435	MU/P/11/00163	Wave Energy Conversion	Application filed	CETO IP Pty Ltd	Mauritius		15-Jul-2020
203880	MU/P/10/00146	Hydraulic Apparatus	Application filed	CETO IP Pty Ltd	Mauritius		12-Oct-2019
207202	324194	Hydraulic Apparatus	Registered	CETO IP Pty Ltd	Mexico	07-Oct-2014	15-Nov-2019
209402	340084	Wave Energy Conversion	Registered	CETO IP Pty Ltd	Mexico	24-Jun-2016	16-Aug-2021
209404	607970	Wave Energy Conversion	Registered	CETO IP Pty Ltd	New Zealand	03-Mar-2015	16-Aug-2020
211095	712623	Deployment System	Examination report received	CETO IP Pty Ltd	New Zealand		28-Mar-2020
207203	599719	Closed-Loop Hydraulic Apparatus for Converting Wave Energy	Registered	CETO IP Pty Ltd	New Zealand	21-Mar-2014	15-Nov-2019
206170	596019	Energy Release Buoyant Actuator	Registered	CETO IP Pty Ltd	New Zealand	02-Dec-2014	07-Apr-2020
126810	576872	Buoyant Actuator	Registered	CETO IP Pty Ltd	New Zealand	30-Apr-2013	02-Nov-2019
202790	586634	Buoyant Actuator	Registered	CETO IP Pty Ltd	New Zealand	01-Oct-2013	17-Dec-2019
123874	566383	Wave Energy Conversion	Registered	CETO IP Pty Ltd	New Zealand	05-Sep-2011	17-Aug-2020
207204	7948	Hydraulic Apparatus	Registered	CETO IP Pty Ltd	Peru	30-Nov-2016	15-Nov-2019
209405	8521	Wave Energy Conversion	Registered	CETO IP Pty Ltd	Peru	26-Oct-2017	16-Aug-2019
274672	2978965B	Deployment System	Registered	CETO IP Pty Ltd	Portugal		28-Mar-2020
209406	10-1813305	Wave Energy Conversion	Registered	CETO IP Pty Ltd	Republic of Korea	21-Dec-2017	21-Dec-2020
261277	10-2015-7030794	Deployment System	Exam requested	CETO IP Pty Ltd	Republic of Korea		
207206	10-1798252	Hydraulic Apparatus	Registered	CETO IP Pty Ltd	Republic of Korea	09-Nov-2017	09-Nov-2020
123872	10-1493463	Wave Energy Conversion	Registered	CETO IP Pty Ltd	Republic of Korea	09-Feb-2015	09-Feb-2020
207736	2534642	Hydraulic Apparatus	Registered	CETO IP Pty Ltd	Russian Federation	10-Dec-2014	15-Nov-2019
261278	PCT/AU2014/000340	Deployment System	Registered	CETO IP Pty Ltd	Seychelles	31-Jan-2017	28-Mar-2020
261279	11201507785P	Deployment System	Registered	CETO IP Pty Ltd	Singapore	22-Jan-2018	28-Mar-2020
261280	2015/07528	Deployment System	Registered	CETO IP Pty Ltd	South Africa	30-Aug-2017	28-Mar-2020
209408	2013/01793	Wave Energy Conversion	Registered	CETO IP Pty Ltd	South Africa	28-May-2014	16-Aug-2020

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123871	2008/02179	Wave Energy Conversion	Registered	CETO IP Pty Ltd	South Africa	26-Aug-2009	17-Aug-2020
202792	2010/04440	Buoyant Actuator	Registered	CETO IP Pty Ltd	South Africa	28-Nov-2011	17-Dec-2019
126811	2009/03239	Buoyant Actuator	Registered	CETO IP Pty Ltd	South Africa	28-Jul-2010	02-Nov-2019
207207	2012/03042	Hydraulic Apparatus	Registered	CETO IP Pty Ltd	South Africa	26-Jun-2013	15-Nov-2019
206172	2011/07911	Energy Release Buoyant Actuator	Registered	CETO IP Pty Ltd	South Africa	30-Jan-2013	07-Apr-2020
274767	2978965B	Deployment System	Registered	CETO IP Pty Ltd	Spain		28-Mar-2020
205437	I549864	Wave Energy Conversion	Registered	CETO IP Pty Ltd	Taiwan	21-Sep-2016	20-Sep-2020
203882	I542783	Hydraulic Apparatus	Registered	CETO IP Pty Ltd	Taiwan	21-Jul-2016	20-Jul-2020
252800	I620868	Deployment System	Registered	CETO IP Pty Ltd	Taiwan	11-Apr-2018	10-Apr-2020
274673	2978965B	Deployment System	Registered	CETO IP Pty Ltd	United Kingdom		28-Mar-2022
209409	9,175,664	Wave Energy Conversion	Registered	CETO IP Pty Ltd	United States of America	03-Nov-2015	03-May-2023
261281	9,726,142	Deployment System	Registered	CETO IP Pty Ltd	United States of America	08-Aug-2017	08-Feb-2021
261722	9,945,349	Hydraulic Apparatus	Registered	CETO IP Pty Ltd	United States of America	17-Apr-2018	17-Oct-2021
123869	8,480,381	Wave Energy Conversion	Registered	CETO IP Pty Ltd	United States of America	09-Jul-2013	09-Jan-2021