

Mr. Walsh has designed, installed and commissioned many systems worldwide. The first use of a flow meter and automated data acquisition system was designed by Mr. Walsh and used in the 1980's at LG-2 in Canada. Since that time, he has designed and commissioned several turbine measurement systems, using both IEC and ASME methods of calculation. The projects Mr. Walsh has performed testing services on are listed in Table 1

<b>Project</b>	<b>Year</b>	<b>Country</b>	<b>MW</b>	<b>Client</b>	<b>Method</b>	<b>No</b>
LG-2	1979	Canada	200	Société d'énergie de la Baie James	Acoustic flow meters/ Winter Kennedy Taps	1
Kenir	1980	Malaysia	72	National Electricity Board of the States of Malay	Acoustic flow meters	2
Kenering Power Plant	1980	Malaysia	27	National Electricity Board of Malaysia	Acoustic flow meters	3
Dan Jiang Power Station	1980	China	150	Nanjing Automation Research	Acoustic flow meters/ Winter Kennedy Taps	4
Bersia	1983	Malaysia	72	National Electricity Board of the States of Malay	Acoustic flow meters	5
Narrows one Power Plant	1983	North Carolina, USA	25	Yadkin Power Corporation Badin	Acoustic flow meters	6
J.B. Black Power House	1985	Oregon, USA	75	Pacific Gas and Electric Portland	Acoustic flow meters/ Winter Kennedy Taps	7
Pensacola Power Plant	1986	Oklahoma, USA	25	Grand River Dam Authority	Acoustic flow meters/ Winter Kennedy Taps	8
Salina Pump Storage Plant	1986	Oklahoma, USA	35	Grand River Dam Authority Ketchum Oklahoma	Acoustic flow meters/ Winter Kennedy Taps	9
Idukii II expansion project	1987	India	100	Kelera State Electricity Generating Board	Acoustic flow meters	10
La Muella Pump Storage Plant	1989	Spain	250	Hydroelectrical Espangola	Acoustic flow meters/ Winter Kennedy Taps	11
Pensacola Power Plant	1989	Oklahoma, USA	25	Grand River Dam Authority	Acoustic flow meters/ Winter Kennedy Taps	12

Project	Year	Country	MW	Client	Method	No
Macaqua Power House 2 and 3 project	1990	Venezuela	50	CVG Electrificación del Caroni River (EDELCA)	Acoustic flow meters	13
Sungai Piah	1992	Malaysia	64	National Electricity Board of the States of Malay	Acoustic flow meters	14
Robert Moses Power Plant	1994	USA	150	New York Power Authority	Acoustic flow meters/ Winter Kennedy Taps	15
Lewiston Pump Storage Plant	1996	USA	45	New York Power Authority	Acoustic flow meters	16
Robert Moses Power Plant	1997	USA	175	New York Power Authority	Acoustic flow meters/ Winter Kennedy Taps	17
Shi San Ling Pump Storage Plant	1998	China	225	China National Power	Acoustic flow meters/ Winter Kennedy Taps	18
Ming Tan Power Project	1999	Taiwan	210	Taiwan Power Corporation	Acoustic flow meters/ Winter Kennedy Taps	19
Akosombo Power Plant	2001	Ghana	225	ACRES International	Acoustic flow meters/ Winter Kennedy Taps	20
Northfield Mountain	2003	USA	250	Northeast Utilities	Acoustic flow meters / Winter Kennedy Taps	21
Chilla	2004	India	144	Uttaranchal Jal Vidyut Nigam Lte.	Acoustic flow meters	22
Grand Coulee Power Plant	2006	USA	120	United States Bureau of Reclamation	Acoustic flow meters	23
Comerford Unit1 baseline	2006	USA	35	TransCanada	Acoustic Method	24
Waneta	2007	Canada	100	Fortis Engineering	Index Test	25
Comerford Unit1	2009	USA	35	TransCanada	Acoustic flow meters/ Winter Kennedy Taps	26
Rapel	2010	Chile	120	Ingendesa	Head Loss Method	27

Project	Year	Country	MW	Client	Method	No
Comerford Unit 2,4 Baseline	2010	USA	35	TransCanada	Acoustic flow meters/ Winter Kennedy Taps	28
Comerford Unit 3 Baseline	2010	USA	35	TransCanada	Acoustic flow meters/ Winter Kennedy Taps	29
Comerford Unit 3 Prototype	2011	USA	50	TransCanada	Acoustic flow meters/ Winter Kennedy Taps	30
Comerford Unit 4 Prototype	2011	USA	50	TransCanada	Pressure Pulsation Testing	31
PT-INCO / SNC	2012	Indonesia	63	PT-INCO	Acoustic Flow meters	32
Comerford Unit 2 Prototype	2012	USA	50	TransCanada	Acoustic flow meters/ Winter Kennedy Taps	33
Lewiston Pump Plant Unit 11	2012	USA	40	New York Power Authority	18 Path Transit Time	34
Iberdrola – San Esteban II	2013	Spain	165	Iberdrola	18 Path Transit Time	35
Comerford Unit 4 Prototype	2013	USA	35	TransCanada	Acoustic flow meters/ Winter Kennedy Taps	36
Ludington Unit 2	2013	USA	312	HDR/Consumers Energy	Acoustic flow meters	37
Snoqualmie Falls Unit 5,6	2014	USA	6.5, 13.5	Puget Sound Energy	Acoustic flow meters / Winter Kennedy Taps	38
Ludington Unit 2 Prototype	2015	USA	312	HDR/Consumers Energy	Acoustic flow meters	39
Lewiston Pump Plant Unit 11 Prototype	2015	USA	40	New York Power Authority	18 Path Transit Time	40