## The Masterstroke 1/3

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> Translation Georgie O'Neil

> > 2018

F1 ITER («The Way» in Latin) is one of the most ambitious energy projects in the world today. In southern France, 35 nations are collaborating to build the world's largest tokamak, a magnetic fusion device that has been designed to prove the feasibility of fusion as a large-scale and carbon-free source of energy based on the same principle that powers our sun and stars.

I1 And ITER, in turn, will contribute to the design of the next-generation machine (DEMO) that will bring fusion research to the threshold of a prototype fusion reactor. Construction is foreseen to start in the 2030s, and operation in the 2040s. Beyond DEMO, the final step to producing fusion energy would be the construction of a prototype reactor, fully optimized to produce electricity competitively.

F3 The immense infrastructures which nuclear power stations (fission and fusion) require are subsidised and necessitate strong engineering skills, which are met by a «supply» of extensive qualifications and research. The companies capitalising on this industry, given the risks, must undergo state supervision. In France, this responsibility lies with the Institute for Radiological Protection and Nuclear Safety (IRSN) and the Nuclear Safety Authority (ASN), as well as the International Atomic Energy Agency (IAEA), which is part of the UN on a global level.

	А	В	C	D	Е	F	G	Н	I	) ]
1	The rea	l masters	troke of t	he scient	ific projec	ct ITER a	nd its pla	nned suc	cessors is	n't just
2	to harn	ess fusion	n to creat	e an elec	trical ene	rgy sourc	e which	can be in	dustrialis	ed and
3	comme	rcialised,	but to «se	ell» us, as	much in a	commer	cial sense	as in a co	nceptual	one i.e.
	get us to	o swallow	, a newly	produced	l centrali	sed energ	y, which v	would the	n be dist	ributed
4	to the consumer population. These are the stakes of such a research programme. The oil									
5	peak, a	lthough a	controve	ersial topi	c, has led	us to ret	hink ene	rgy sourc	es and to	reflect
6	on the f	uture of p	productio	n-driven	societies.	How is it	possible	to continu	ie with th	is pro-
7	gressive	esocietal	spree bro	ought abo	out by the	industri	al revolut	ions with	out coal,	oil, or
	nuclear	fission?	These thr	ee fossil f	uels all sh	nare the c	ommon c	uality of	being ext	remely
8	pollutir	ng, if not	destructi	ve, in the	r own wa	y and to	varying d	egrees.	35000	545
9	333m.		Saint- Paul-Les- Durance					87	351m	348m
10	Departement		396m				954m	295m		

C4 As a population of consumers, we use these pre-established systems without calling them into question for various reasons, or claim that we don't have any option to avoid them. The relationship we have with waste water treatment (mains drainage) and other waste bears testament to our ability to shirk responsibility regarding waste treatment methods. We increasingly delegate managing the water cycle and waste, as well as energy and transport, to multi-nations such as Veolia, thus renouncing any right to decision-making or monitoring.

D5 The International Energy Agency (IEA) acknowledges that we have already reached peak oil. Conventional oil production reached its «historic peak» in 2006 and will «never» increase: this is the bomb which was dropped, and subsequently defused, by the IEA, the organisation based in Paris tasked with advising the rich countries in the OECD.

E6 The ideological foundation of a production-driven society can be expressed in the principle of infinite production-distribution-consumption (with planned obsolescence, waste etc.) without considering the opposition between necessity and excess (or the principle of creating need).

B2 Fusion is the energy source of the sun and stars. In the tremendous heat and gravity at the core of these stellar bodies, hydrogen nuclei collide, fuse into heavier helium atoms and release tremendous amounts of energy in the process.

G7 The first Industrial Revolution (1780-1880) revolved around the steam engine; the second (1880-1973) on combustion and jet engines, while the supposed third (1973 -) revolves around computers. Industrial revolutions are intrinsically linked to the ideology of the Enlightenment and the idea that historical advancement is the pursuit of comfort and freedom (progress).

## The Masterstroke 2/3

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B1 Renewable energy is energy collected from renewable resources, which are naturally replenished on a human timescale, such as sunlight, wind, rain, tides, waves, and geothermal heat. Renewable energy often provides energy in four important areas: electricity generation, air and water heating/cooling, transportation, and rural (off-grid) energy services.

A5 The governments which have signed the ITER research programme are China, the EU, India, Japan, Korea, Russia, and the USA, all of whom have a highly stable political spectrum. The system of governance remains constant whatever the governing party and internal opposition. In addition, faith in commercial society and in the «economy», imperialism, military force, and a large population unite them to varying degrees.

	A	В	С	D	Е	F	G	Н	I	J
1	Renew	able ener	gy is there	fore being	g embrace	ed. Althou	igh useabl	e on a larg	ge scale, t	he risk
2	is that	it can also	be decei	ntralised,	with sour	ces of var	ious types	s being for	und all o	ver the
3	ians /					500	er the sust	1 6/1/2	7.7	
4	why is	research i	nto fusio	n desirabl	e? When	the gover	nments of	greatly di	ffering p	olitical
5	regime	s work to	gether to	finance an	d bring t	ogether th	neir exper	tise in the	same un	certain
6	A STATE OF THE PROPERTY OF THE	7	45. 35.				hey are s	00		
7	P	- Cillian				\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	trol.The paint of the	Ti W	10	11/1/19/1
8		288			11	1 577	place at th	1/20	1 7	ndela
9	of an e	nergy circ	cuit in wh	ich we wo	uld enjoy	the freed	lom of bei	ng withou	ıt guardia	inship.
10		334m	Les C	erots			7236		· Semen	

F6 Strategic energy control operates according to the infrastructure required and, more still, the complexity of production, but also according to potential consequences of military usage. Faced with this, the only possible approach as a population is fearful submission and a state of numbness.

A8 The importance of the Nation-State, where land border and dominant culture interlock (think about the place of sport in the collective imagination), and liberating and protective communitarianism, where individuals define themselves along lines of gender, sexuality, religion, ethnic origins, and skin colour, have replaced the hierarchical considerations of the exploitative dominant/dominated power relationship. Class struggles and class identity have been greatly diminished.

B3 Collective or individual autonomy over one's own energy production and consumption would have the immediate advantage of not being subject to general network outages and price fluctuations, but also of reducing waste linked to transport and, of course, depending on the sources used, of having zero or even a positive environmental impact.

I9 Fledglings await the regurgitated food of their parents and are dependent of it in order to survive their first few weeks of life. When human children become autonomous, the educational and protective parental authority slowly fades away. Voluntary respect is maintained through the wisdom of elders' experiences.

## *The Masterstroke 3/3*

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B1 The senior leadership encompasses those who write laws and regulations and who enforce them (by force or the threat of it), as well as knowledge and truths (in the shared education system), and those who hold resources and means of production and large amounts of capital and leverage them for power (accumulating and monopolising goods at the expense of collectivity, as well as interfering with decision-making through lobbying and defending private interests). Finally, it includes those with arbitrary privilege such as royalty. This "class" is, of course, not homogenous, and on occasion has strongly antagonistic interests. That said, it can be identified by the percentage of wealth and advantages held compared with the rest of the population, and the desire to remain in power through support (educational and media propaganda) or force (army, military, industry).

\* The new French societal structure born from the 1789 French Revolution - abolished privileges and moving towards a meritocracy - gave rise to a new kind of hierarchical

transmission via genetics, whereby the status of an individual is more or less guaranteed to be the same as that of their parents, as described by Sociologist Pierre Bourdieu. Thus, we cannot give much credit to the idea of merit, a new word for birth privilege. The Inequality Observatory published an article on their website (data from 22nd June 2018) stating that 75% of the «representative» French National Assembly is made up of executives and elite intellectual professions which otherwise represent 18% of the working population, while labourers (20% of the working population) are represented in the Assembly by...0%.

D3 The climate challenge is a euphemism which includes global warming, the exhausting of resources, infertile land, water pollution, air contamination, and the mass extinction of animal and plant species.

E4 Environmental science studies the symbiotic relationships sustained between life forms and with their environment.

	А	В	С	D	Е	F	G
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3			1	e challeng nergy pro			
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8	gressive	ely, togeth	ner, wean	ourselve	s off depe	ndency a	nd find
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G6 The term «senior leadership» is interchangeable with «senior management», but it underlines the sacrilege of the expression, as managers who mismanage can be said to have no foresight.

A9 Today, there is already an array of available and functioning «renewable» technologies, in domestic and waste-treatment spheres as much as electricity and food production. Some of these admittedly require a costly installation and shared responsibility, but others are efficient on an individual and household scale. Small gestures, not just large-scale choices, are ready to be popularised. That said, both require just as much commitment and time as any new concept or overview without commercial or monopolistic qualities. These large-scale choices are indeed incompatible with any lucrative centralised programme (however renewable) at the heart of known derivations and dependencies. Of course, if renewables are given coverage and encouraged, it's because they fit into the capitalist desire for growth. Therefore, the opposite is appropriate i.e. sharing, «degrowth», autonomy, and symbiosis.

E9 Commonly sharing technical knowledge and knowledge of physics and metaphysics, combined with the cult of private property and infinite growth has driven us to destructive technology and the legitimisation of a new kind of tutelary power. In response, we can teach what would break this cycle. The master being surpassed by the student on occasion, we can't even imagine what we can invent together with a new educational paradigm.

D9 Why do alcoholics come together if not to mutually support each other, to feel less alone, and share tips on resisting temptation? In the same vein, let's imagine «consumers anonymous». Likewise, stopping smoking is torturous; never starting and learning rationally to live without is preferable. The same can be said of the car. What looks like a joke is in fact the miraculous solution. Acquired habits and instilled learning are the watchwords of a civilisational reversal.