Okcash Long Term Sustainable Staking

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Abstract - The current Proof of Stake systems depend on a stable or short % changes in the yearly staking calculations , which results in short spans and/or unstable systems with no sustainability nor stability. In this paper a Long Term Sustainable Staking system is proposed to solve and improve over this issues.

I. INTRODUCTION

Technical Sustainability : In aims of improving the system , sustainability and reliability in OK, while at the same time respecting scarcity.

We came up with a solution to empower OK and secure LTSS , Bitcoin has LTPoW lasting till the year 2140 , with this implementation OK LTTS would be lasting till the year 2148 , making it the best PoS partner for Bitcoin and MicroTransactions.

II. SUSTAINABLE HALVINGS

Economics: the 11 planned halvings will help stabilize the currency and appreciation as they kick in. There will be some halvings with a 4 years period that will start to give OK more predictability for markets , securing the trust of services and markets, after the 11 th halving OK gets a fixated % (after year 2044*), this will normalize the OK coins creation to grow in a constant and stable rate for the last 100 + years becoming the most secure, stable and mathematically predictable PoS coin with LTSS and scarcity.

If the % of network staking at X time grows slower than the expected % of growth , Consensus could be reached to integrate and extra halving with a higher stake % for the normalization with the schedule. Even so for this normalizing halving to get included , consensus should be reached.

III. IMPLEMENTATION AND PERCENTAGES

Last OK coins to be PoS mined expected between years 2148 - 2188 depending on the % of Network Staking.

Glossary:

LTSS - Long Term Sustainable Staking.

LTPoW - Long Term Proof of Work.

Clean readable OK Staking % Calc. Improvements table [2.1]
Html txt format [2.2]

format table:

Halvings Year end Year # Stake % Coins created for that year expected with 100% staking network.*

* Aprox year per block count.

Halvings	Year	end* Year #	Stake %	Coins created	expected
-	2014	-		36,297,000	End of PoW Start of PoS
-	2015	1	69	25044930	61,341,930
1	2016	2	20	12268386	73,610,316
2	2017	3	10	7361031.6	80,971,348
3	2018	4	5	4048567.38	85,019,915
4	2019	5	2.5	2125497.875	87,145,413
5	2020	6	2	1742908.257	88,888,321
-	2021	7	2	1777766.422	90,666,088
-	2022	8	2	1813321.751	92,479,409
-	2023	9	2	1849588.186	94,328,997
6	2024	10	1	943289.9747	95,272,287
-	2025	11	1	952722.8744	96,225,010
-	2026	12	1	962250.1032	97,187,260
-	2027	13	1	971872.6042	98,159,133
7	2028	14	0.50	490795.6651	98,649,929
-	2029	15	0.50	493249.6435	99,143,178
-	2030	16	0.50	495715.8917	99,638,894
-	2031	17	0.50	498194.4711	100,137,089
8	2032	18	0.25	250342.7217	100,387,431
-	2033	19	0.25	250968.5785	100,638,400
-	2034	20	0.25	251596	100,889,996
-	2035	21	0.25	252224.99	101,142,221
9	2036	22	0.10	101142.221	101,243,363
-	2037	23	0.10	101243.3632	101,344,607
-	2038	24	0.10	101344.6066	101,445,951
-	2039	25	0.10	101445.9512	101,547,397
10	2040	26	0.05	50773.69857	101,598,171
-	2041	27	0.05	50799.08541	101,648,970
-	2042	28	0.05	50824.48496	101,699,794
-	2043	29	0.05	50849.8972	101,750,644
11	2044	30	0.03	30525.19329	101,781,169
	2045	31	0.03	30534.35085	101,811,704
	2046	32	0.03	30543.51115	101,842,247
	2047	33	0.03	30552.67421	101,872,800
	2048	34	0.03	30561.84001	101,903,362
	2049	35	0.03	30571.00856	101,933,933
	2050	36	0.03	30580.17986	101,964,513
	2051	37	0.03	30589.35392	101,995,102
	2052	38	0.03	30598.53072	102,025,701
	2053	39	0.03	30607.71028	102,056,309
	2054	40	0.03	30616.89259	102,086,926
	2055	41	0.03	30626.07766	102,117,552
	2056	42	0.03	30635.26549	102,148,187
	2057	43	0.03	30644.45607	102,178,831
	2058	44	0.03	30653.6494	102,209,485
	2059	45	0.03	30662.8455	102,240,148
	2060	46	0.03	30672.04435	102,270,820
	2061	47	0.03	30681.24596	102,301,501
	2062	48	0.03	30690.45034	102,332,192
	2063	49	0.03	30699.65747	102,362,891
	2064	50	0.03	30708.86737	102,393,600

2065	51	0.03	30718.08003	102,424,318
2066	52	0.03	30727.29545	102,455,045
2067	53	0.03	30736.51364	102,485,782
2068	54	0.03	30745.7346	102,516,528
2069	55	0.03	30754.95832	102,547,283
2070	56	0.03	30764.18481	102,578,047
2071	57	0.03	30773.41406	102,608,820
2072	58	0.03	30782.64608	102,639,603
2073	59	0.03	30791.88088	102,670,395
2074	60	0.03	30801.11844	102,701,196
2075	61	0.03	30810.35878	102,732,006
2076	62	0.03	30819.60189	102,762,826
2077	63	0.03	30828.84777	102,793,655
2078	64	0.03	30838.09642	102,824,493
2079	65	0.03	30847.34785	102,855,340
2080	66	0.03	30856.60205	102,886,197
2081	67	0.03	30865.85903	102,917,063
2082	68	0.03	30875.11879	102,947,938
2083	69	0.03	30884.38133	102,978,822
2084	70	0.03	30893.64664	103,009,716
2085	71	0.03	30902.91474	103,040,619
2086	72	0.03	30912.18561	103,071,531
2087	73	0.03	30921.45927	103,102,452
2088	74	0.03	30930.7357	103,133,383
2089	75	0.03	30940.01493	103,164,323
2090	76	0.03	30949.29693	103,195,272
2091	77	0.03	30958.58172	103,226,231
2092	78	0.03	30967.86929	103,257,199
2093	79	0.03	30977.15965	103,288,176
2094	80	0.03	30986.4528	103,319,162
2095	81	0.03	30995.74874	103,350,158
2096	82	0.03	31005.04746	103,381,163
2097	83	0.03	31014.34898	103,412,178
2098	84	0.03	31023.65328	103,443,201
2099	85	0.03	31032.96038	103,474,234
2100	86	0.03	31042.27027	103,505,276
2101	87	0.03	31051.58295	103,536,328
2102	88	0.03	31060.89842	103,567,389
2103	89	0.03	31070.21669	103,598,459
2104	90	0.03	31079.53776	103,629,539
2105	91	0.03	31088.86162	103,660,628
2106	92	0.03	31098.18828	103,691,726
2107	93	0.03	31107.51773	103,722,833
2108	94	0.03	31116.84999	103,753,950
2109	95	0.03	31126.18504	103,785,076
2110	96	0.03	31135.5229	103,816,212
2111	97	0.03	31144.86355	103,847,357
2112	98	0.03	31154.20701	103,878,511
2113	99	0.03	31163.55328	103,909,674
2114	100	0.03	31172.90234	103,940,847
2115	101	0.03	31182.25421	103,972,030
2116	102	0.03	31191.60889	104,003,221
2117	103	0.03	31200.96637	104,034,422
2118	104	0.03	31210.32666	104,065,633
2119	105	0.03	31219.68976	104,096,852
2120	106	0.03	31229.05567	104,128,081
2121	107	0.03	31238.42438	104,159,320
2122	108	0.03	31247.79591	104,190,567
2123	109	0.03	31257.17025	104,221,825
2124	110	0.03	31266.5474	104,253,091
2125	111	0.03	31275.92736	104,284,367
2126	112	0.03	31285.31014	104,315,652
2127	113	0.03	31294.69574	104,346,947
2128	114	0.03	31304.08414	104,378,251
2129	115	0.03	31313.47537	104,409,565
2130	116	0.03	31322.86941	104,440,888
2131	117	0.03	31332.26627	104,472,220
2132	118	0.03	31341.66595	104,503,562
2133	119	0.03	31351.06845	104,534,913
2134	120	0.03	31360.47377	104,566,273
2135	121	0.03	31369.88192	104,597,643
2136	122	0.03	31379.29288	104,629,022
2137	123	0.03	31388.70667	104,660,411
2138	124	0.03	31398.12328	104,691,809
2139	125	0.03	31407.54272	104,723,217
2140	126	0.03	31416.96498	104,754,634
2141	127	0.03	31426.39007	104,786,060
2142	128	0.03	31435.81799	104,817,496
2143	129	0.03	31445.24873	104,848,941
2144	130	0.03	31454.68231	104,880,396
2145	131	0.03	31464.11871	104,911,860
2146	132	0.03	31473.55795	104,943,333
2147	133	0.03	31483.00001	104,974,816
2148	134	0.03	31492.44491	105,006,309

extra normalization halving could be integrated on any halving schedule after the 4th halving (2.5%), this normalization halving could vary between 22-33% and could be implemented to last for 1-2 year based on consensus and estimated supply growth.

III. SUMMARY

The proposed changes are intended to improve on stability and sustainability in the Okcash POS system [1].

REFERENCES

[1] Okcash pos protocol: https://github.com/okcashpro/okcash-whitepapers/blob/master/POS/okcash-pos-protocol-ltss-whitepaper.pdf
[2.1] Improvement table: http://jsbin.com/pitehet/1
[2.2] Html txt format: http://pastebin.com/ZBtKZwVG